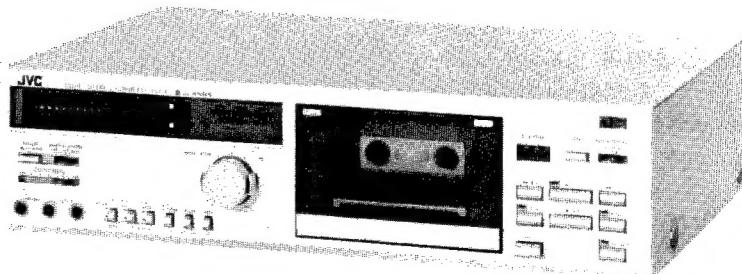


JVC

SERVICE MANUAL

MODEL
DD-5 A/B/C/E/J/U
STEREO CASSETTE DECK



No. 4197
January 1981

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Specifications

Type	: Stereo cassette deck
Track system	: 4-track, 2-channel
Tape speed	: 1-7/8 inch/sec (4.8 cm/sec)
Frequency response: (0 dB recording)	
Metal tape *1;	30–12,500 Hz ± 3 dB (Typical)
SA/Chrome tape *2;	30–8,000 Hz ± 3 dB (Typical)
SF/Normal tape *3;	30–8,000 Hz ± 3 dB (Typical)
(–20 dB recording)	
Metal tape *1;	20–18,000 Hz (Nominal) 30–16,000 Hz ± 3 dB (Typical)
SA/Chrome tape *2;	20–18,000 Hz (Nominal) 30–16,000 Hz ± 3 dB (Typical)
SF/Normal tape *3;	20–17,000 Hz (Nominal) 30–15,000 Hz ± 3 dB (Typical)
	Surpasses DIN 45 500.
Note: *1 ... SCOTCH METAFINE or Equivalent	
*2 ... TDK SA or Equivalent	
*3 ... MAXELL UD or Equivalent	
S/N ratio	: 60 dB (from peak level, weighted, Metal tape) The S/N is improved by 5 dB at 1 kHz and by 10 dB above 5 kHz with ANRS /DOLBY B on. (DIN 45 500 weighted)
Effect of Super ANRS: (normal tape)	
Improvement of S/N:	the same as with ANRS/DOLBY B
Improvement of frequency response:	
	0 VU recording; 6 dB at 10 kHz +5 VU recording; 12 dB at 10 kHz
Improvement of distortion:	
	0 VU recording; 3% or less at 10 kHz +5 VU recording; 3% or less at 10 kHz
Wow and flutter	: 0.021% (WRMS), 0.065% (DIN 45 500)
Crosstalk	: 65 dB (1 kHz)
Harmonic distortion: K3	: 0.4%, THD: 1.0% (metal tape, 1 kHz 0 VU)

Bias	: AC bias
Erasure	: AC erasure
Heads	: SEN ALLOY head for recording/play-back, 2-gap Ferrite head for erasure
Motors	: Pulse-servo DD motor (for Capstan) DC motor (for Reel)
Fast forward time	: 85 sec. or less with C-60 cassette
Rewind time	: 85 sec. or less with C-60 cassette
Semiconductors	: 8 ICs, 73 transistors, 40 diodes, 2 hall elements
Input terminals	
Mic jack x 2	: Max. sensitivity; 0.2 mV (-72 dBs) Matching impedance; 600 Ω – 10 kΩ
Input jack x 2	: Min. input level; 80 mV (-20 dBs) Input impedance; 100 kΩ
Output terminals	
Output jack x 2	: Output level; 0 – 500 mV Output impedance; 5 kΩ
Phones jack x 1	: Output level; 0 – 0.6 mW/8 Ω Matching impedance; 8 Ω – 1 kΩ
DIN socket	: Min. input level; 0.1 mV/kΩ Input impedance, 10 kΩ Output level, 0–500 mV Output impedance; 5 kΩ
Power requirement	: AC 240 V, 50 Hz (DD-5A) AC 120 V, 60 Hz (DD-5C/J) AC 240/220/120 V, 50/60 Hz (DD-5B/E) AC 240/220/120/100 V, 50/60 Hz (DD-5U)

Power consumption: 26 W
Dimensions : 420 mm(W) x 110 mm(H) x 290 mm(D)
 16-1/2" x 4-3/8" x 11-1/2"

Weight : 13.2 lbs (6 kg)

Design and specifications are subject to change without notice.

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Features

- Pulse-servo direct drive/Two-motor full logic operation mechanism
- Low wow/flutter (WRMS 0.021%)
- Two-color long scale FL digital display peak meter with hold
- Sen-Alloy record/playback head
- ANRS/DOLBY B and Super ANRS incorporated
- Metal tape compatible
- New slim design with push button switches
- Auto-rewind PLAY/STOP
- Remote control facility (R-50E, option)
- Record muting (REC MUTE) mechanism (with operation indicator LED)
- Timer standby facility with safety lock
- Output volume with headphone volume

Controls and Connections

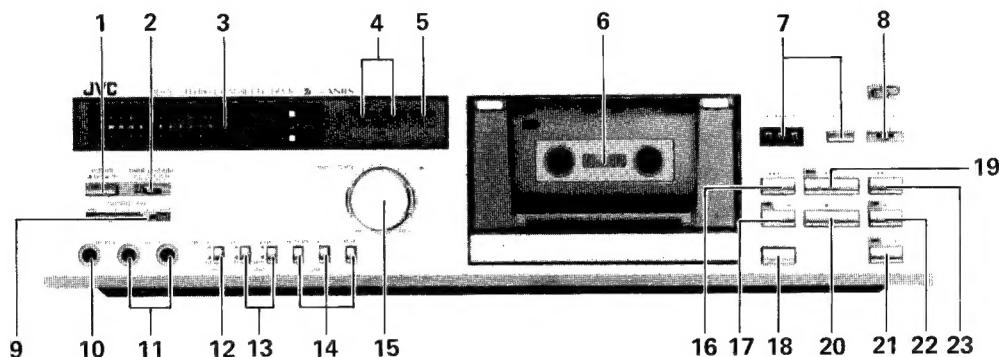


Fig. 1

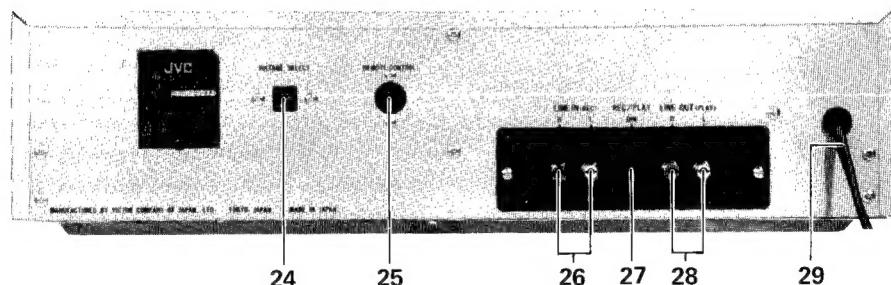


Fig. 2

1 POWER switch	15 INPUT LEVEL control
2 TIMER STANDBY switch	16 ◀◀ REW (rewind) button
3 FL level indicator	17 ○ REC (recording) button with indicator
4 ANRS indicator (SUPER ANRS)	18 EJECT button
5 METAL tape indicator	19 ▶ PLAY button with indicator
6 Cassette holder	20 ■ STOP button
7 Tape COUNTER/Counter RESET button	21 REC MUTE button with indicator
8 AUTO REWIND switch	22 □ PAUSE button with indicator
9 OUTPUT LEVEL control	23 ▶▶ FF (fast forward) button
10 Headphone jack (PHONES)	24 VOLTAGE SELECT switch (DD-5B/E/U)
11 Microphone jacks (MIC-L, -R)	25 REMOTE CONTROL socket
12 INPUT select switch (MIC/DIN-LINE)	26 LINE IN terminals
13 ANRS switch (ON-OFF, SUPER-ANRS/DOLBY B)	27 REC/PB socket
14 Tape select switch (SF/NORM, SA/CrO ₂ , METAL)	28 LINE OUT terminals
	29 Power cord

Main Parts Location

Top view

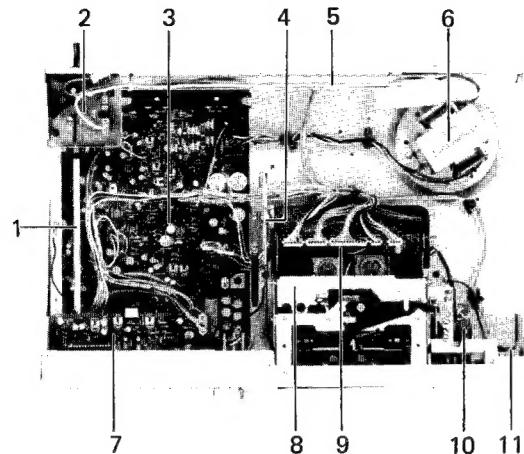


Fig. 3

- 1 Remote bar for power switch
- 2 Power switch P.W.B. ass'y
- 3 Main amp. P.W.B. ass'y
- 4 Gear-oiled damp brake
- 5 Remote control socket
- 6 Power transformer
- 7 FL indicator P.W.B. ass'y
- 8 Mechanical assembly
- 9 Mecha. control P.W.B. ass'y
- 10 Hall IC P.W.B. ass'y
- 11 Auto-Rewind switch

Front view

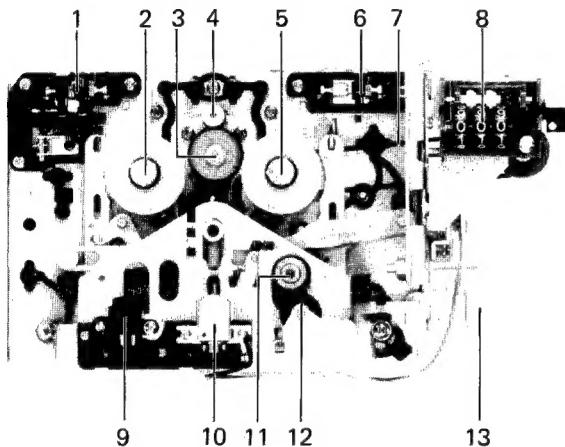


Fig. 4

(Mechanical parts)

- 1 Switch holder (L)
- 2 Supply reel disc
- 3 Idler ass'y
- 4 Reel motor pulley
- 5 Take-up reel disc
- 6 Switch holder (R)
- 7 Counter belt
- 8 Counter
- 9 Erase head
- 10 REC/PB head
- 11 Capstan (Direct Drive Motor shaft)
- 12 Pinch roller ass'y
- 13 Eject lever
- 14 Mecha. control P.W.B. ass'y
- 15 Brake solenoid
- 16 Reel motor
- 17 Play solenoid
- 18 Hall IC P.W.B. ass'y

Top view

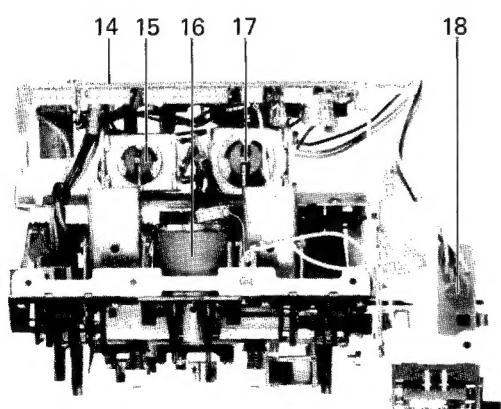


Fig. 5

Description on technology

For the following technology, refer to "Description on new technology" of DD-7A/B/C/E/J/U service manual (No. 4195).

■ Direct Drive (D. D.) motor

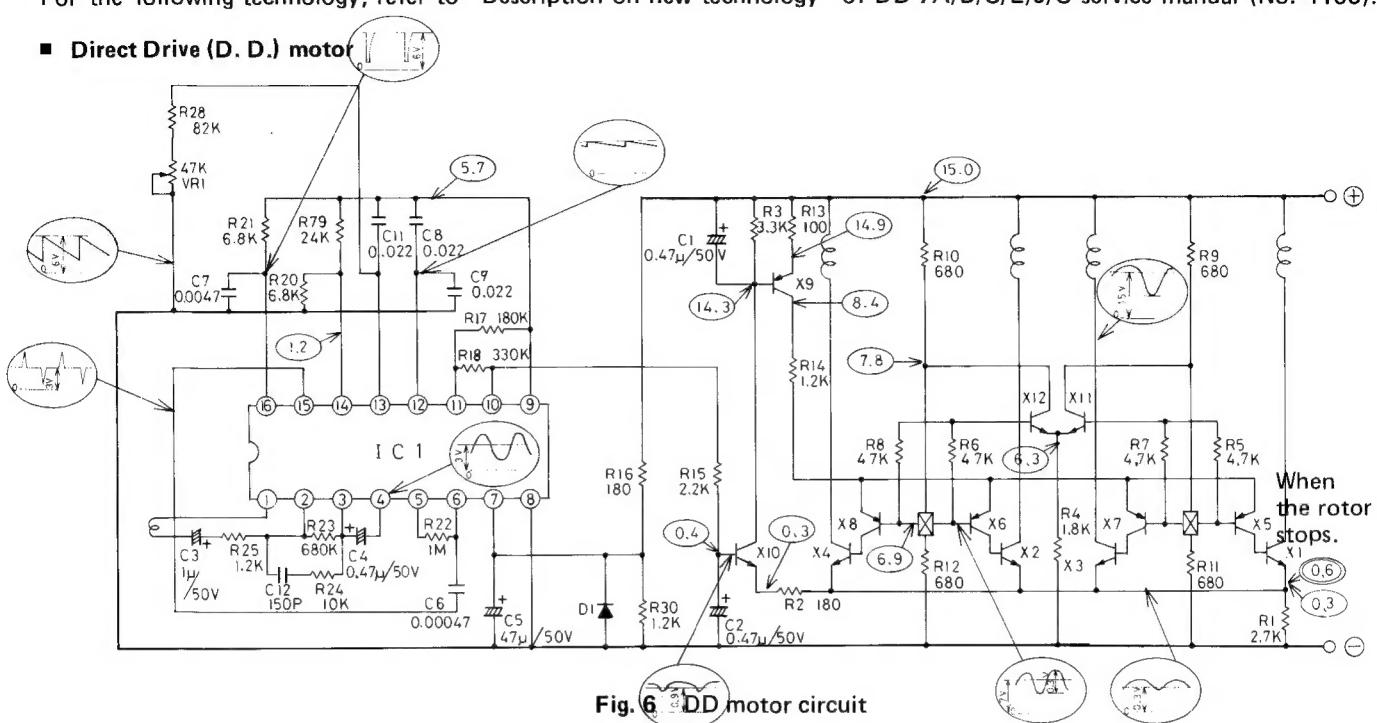


Fig. 6 DD motor circuit

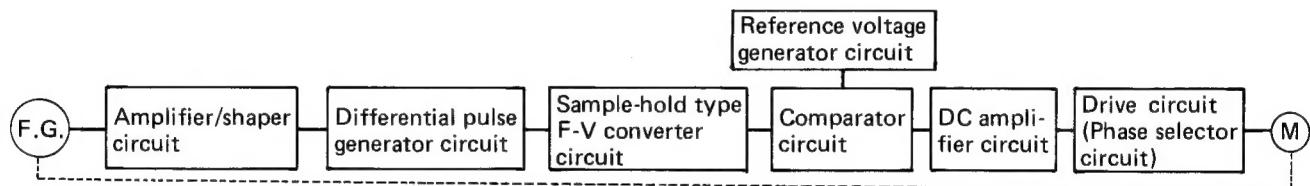


Fig. 7 DD motor block diagram

Other functions not written here are the same as those of DD-7A/B/C/E/J/U.

- Two-solenoid mechanism with real-time pause function.
- FL level meter circuit.

Maintenance

To get long, trouble-free service, maintenance is important. Do not forget cleaning and demagnetizing.

Cleaning

After long use, the heads and tape part — capstan, pinch roller, etc. — will become dirty with dust or magnetic particles. Dirty heads cause imperfect erasing or high frequency drop-off. A dirty capstan and pinch roller will cause unstable tape speed, leading to increased wow and flutter. Always keep them clean by following the procedure below.

1. Heads

- 1) Push Eject button to open the cassette holder.
- 2) Use the head cleaning stick provided to wipe the surface where the tape comes into contact with the head.
(It is effective to moisten the cotton with alcohol.)

2. Pinch roller and capstan

Do the same method as heads.

3. Cabinet

When the cabinet becomes dirty, wipe it with a soft cloth soaked with a neutral cleaning solution of a polishing cloth.

* Do not use thinner or benzine.

Demagnetizing

The heads are made from a material resistant to magnetization, but after long use they may become magnetized. A magnet brought into their vicinity can magnetize the heads, causing excess noise. If noise seems to have increased, demagnetize the heads with a head demagnetizer through the following procedure.

1. Turn the POWER switch OFF.
2. Wrap the tip of the demagnetizer with vinyl tape or soft cloth so as not to damage the head surface. Switch on the demagnetizer and bring it close to the head.
3. Move the tip of the demagnetizer slowly first to the left and right, then up and down in front of the head. Gradually move it away from the head and switch it off at a distance of more than 30 cm (12").
4. The erase head need not be demagnetized. The capstan shaft and tape guide should be demagnetized in the same way as the record/playback head.

* Do not bring a magnetized metallic object (a screwdriver, for example) near the head as this will increase noise.

Removal of the main parts

Observe care in handling the parts since the parts are small in size and the distance between them are short due to a

deck design aimed mainly at compactness and high performance.

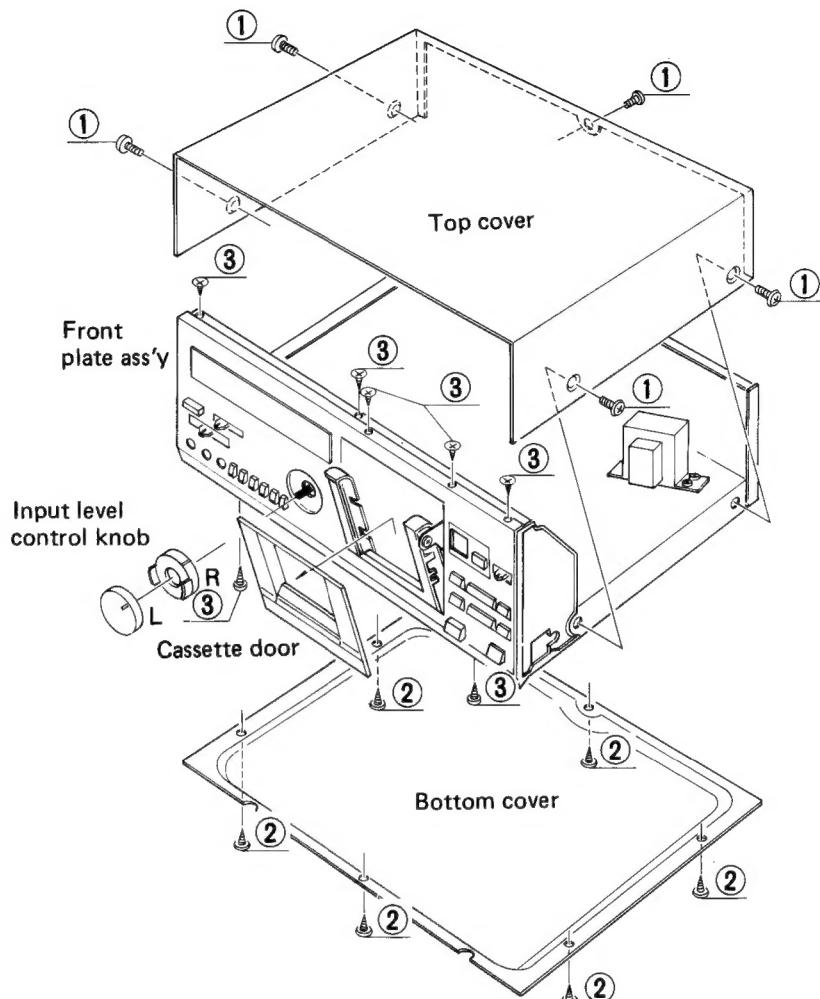


Fig. 8

ENCLOSURE ASSEMBLY PARTS

- **Cassette door**

Push the eject button to open the cassette door.

Slide off the cassette door upwards (about 5 mm) to unlock its pawls of both sides.

Remove the cassette door forward.

- **Input level control knobs** (Right channel & Left channel)

Pull off them forward.

- **Top cover**

Remove 5 screws ① (left and right 2 screws on each and rear center a screw).

- **Bottom cover**

Remove 6 screws ② fastening the bottom cover.

- **Front plate assembly**

Remove 5 screws ③ (blue 2 screws for the mechanical assembly, and other screws are under rubber cushions) on upper side and 2 screws on bottom side fastening the front plate assembly.

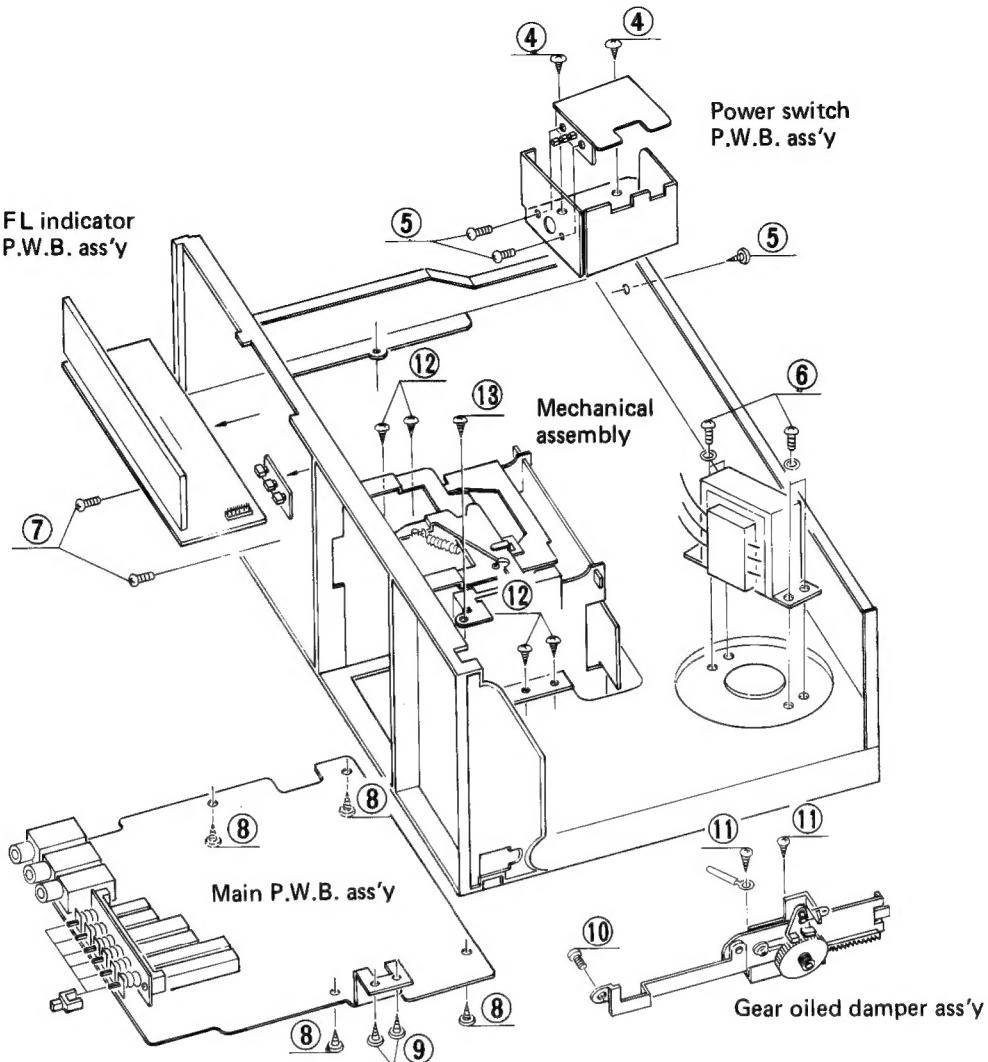


Fig. 9

ELECTRICAL PARTS

● Power switch

Remove 3 screws ④ fastening the switch bracket.

Remove 2 screws ⑤ fastening the power switch.

● Power transformer

Remove 4 screws ⑥ fastening the power transformer.

● Main P.W.B. assembly

1) Remove 2 screws ⑦ fastening the switch.

2) Remove 4 screws ⑧ fastening the main P.W. board.

3) Remove 2 screws ⑨ fastening the heat sink plate for transistors.

4) Remove 2 screws fastening the escutcheon for pin jacks.

5) Remove 2 connectors (on the main P.W. board) of REC/PB head wires and erase head wires.

6) Cut off 4 clamps (QHX2075-001) for wires.

● FL P.W. board assembly

After removing the front plate assembly, remove the connector of wires, and pull off them forwards.

● Timer standby switch

1) Remove the timer switch knob.

2) Remove 2 screws, moving the bracket up or down.

MECHANICAL ASSEMBLY

1) Remove a screw ⑩ fastening the arm of gear-oiled damper (left side of cassette holder).

To remove the door brake relational parts, remove 2 screws ⑪ fastening the gear frame assembly.

2) Remove 4 screws ⑫ fastening the mecha. bracket to amp chassis. (Left and right 2 screws on each)

3) Remove a screw fastening the front panel.

4) Remove 3 wires from chassis.

5) Remove 5 connectors on the mecha. control P.W. board.

Mechanical section mounting

To mount the entire mechanical section, insert the tops (2 places) of the mounting bracket into the groove in the front bracket (molding).

Note: When the tops of the mounting bracket is placed in the lowest side of the front bracket, even if the screw is tightened, unstable mounting results.

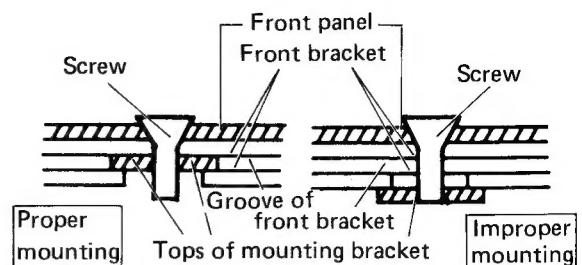


Fig. 10

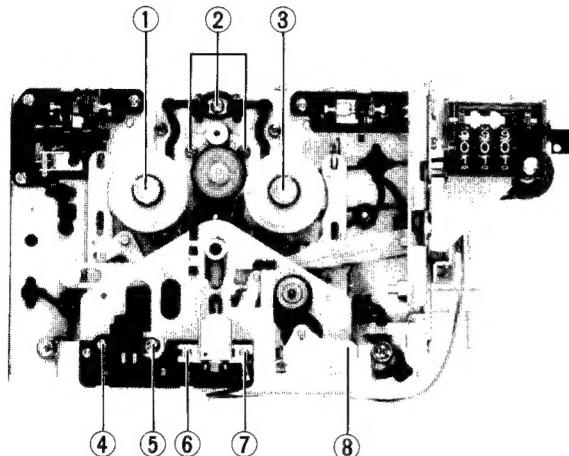
MECHANICAL PARTS

Fig. 11

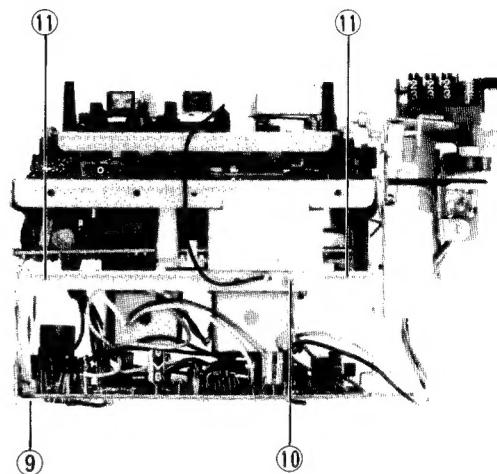


Fig. 12

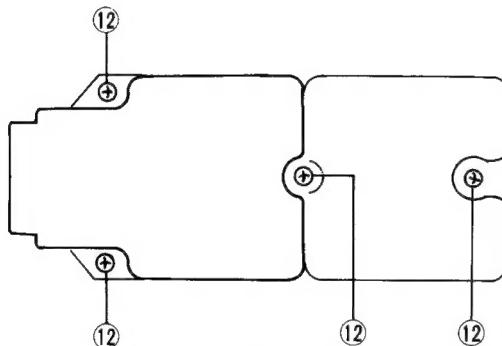


Fig. 13

1. Supply reel disc

Pull out the reel disc stopper ① and remove its disc from the shaft.

When assembling the reel disc, the stopper needs a new parts (the stopper cannot be used again).

2. Reel motor

- 1) Remove 3 screws ② fastening the reel motor.
- 2) Remove a screw fastening the shift arm.

3. Take-up reel disc

Pull out the reel disc stopper ③.

4. Erase head

Remove a screw ④ for adjustment.
Remove a screw ⑤.

5. REC/PB head

Remove a screw ⑥ for adjustment.
Remove a screw ⑦.

6. Pinch roller arm ass'y

Remove an E-ring ⑧ holding its assembly.

7. Capstan motor assembly

- 1) To remove the mecha. control P.W. board ass'y, remove a screw ⑨ fastening its assembly.
- 2) Remove a screw ⑩ fastening the earth lug (with removing the shield barcket).
- 3) Remove 4 screws ⑪ fastening the solenoid bracket.
- 4) Remove 4 screws ⑫ fastening the capstan motor assembly.

Main Adjustments

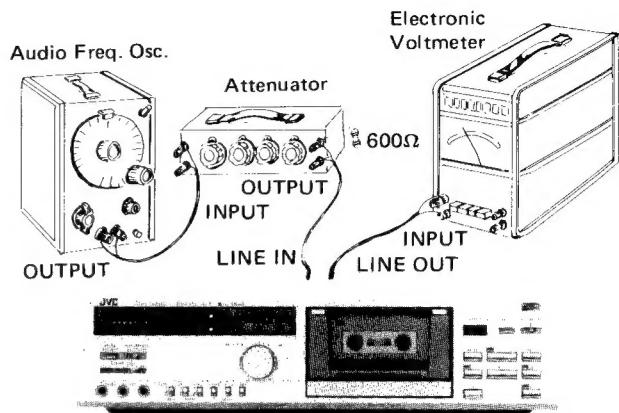
[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

- 1) Electronic voltmeter
- 2) Audio frequency oscillator
(range: 50–20 kHz and output 0 dB with impedance 600 Ω)
- 3) Attenuator
- 4) Standard tapes for REC/PB
Maxell UD – SF tape
TDK SA – SA tape
SCOTCH METAFINE – Metal tape
- 5) Reference tapes for playback (JVC Test Tape)
VTT-658 (for head azimuth adj.)
VTT-656A-S (for motor speed, wow flutter adj.)
VTT-664 (for Reference Level 1 kHz)
VTT-675N (for playback frequency response)
- 6) Resistors
600 Ω (for attenuator matching)

2. Mechanical adjustment

- 1) Torque testing cassette gauge
- 2) Blank tape (C-120) for tape running checker

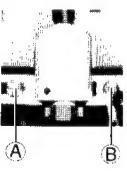
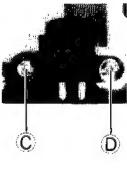
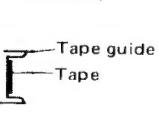
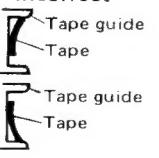


DD-5

Fig. 14

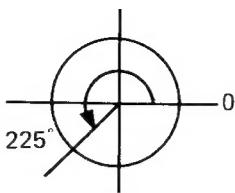
[II] Adjustment and repair of the mechanism

(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting record/playback head position 	<ol style="list-style-type: none"> 1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT-658 test tape. 3. Adjust the head angle with the screw A until the reading of the electronic voltmeter becomes maximum for both channels. 4. After adjusting, set the screw with screw bond. 	Screw A	Maximum	<p>If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one.</p> <p>After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary.</p> <p>If the output difference between the left and right channels exceeds 3 – 4 dB, the head is defective. Replace it with a new one.</p>
Adjusting erase head height 	<p>Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw C until the tape runs in the center of the erase head tape guide.</p> <p>Correct  Tape guide Tape</p> <p>Incorrect  Tape guide Tape Tape guide Tape</p>	Screw C		Be sure to perform this adjustment after replacing the erase head.

Tape-to-head contact adjustment

- 1) Turn the adjusting screw for aligning the erase head until it stops. Then, turn the screw in the reverse direction by 225° (a 5/8 revolution).



- 2) Check the tape-to-head contact using a C-120 tape having pads.
- 3) Check it again with a Metal tape.
Checking method:
Record a 400 Hz or 1 kHz signal with 0 VU + 20 dB.
Erase the recording. Checking if the erasing is satisfactorily performed.
- 4) After adjustment, apply screw bond on the adjusting screw to prevent its loosening.

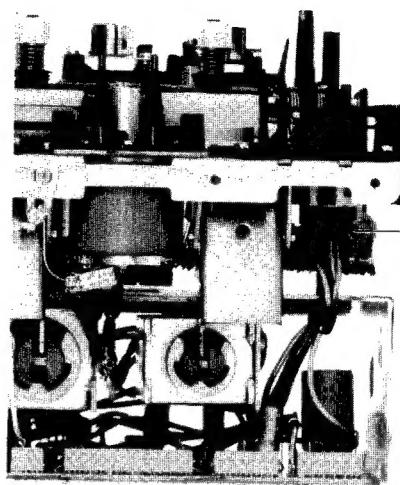
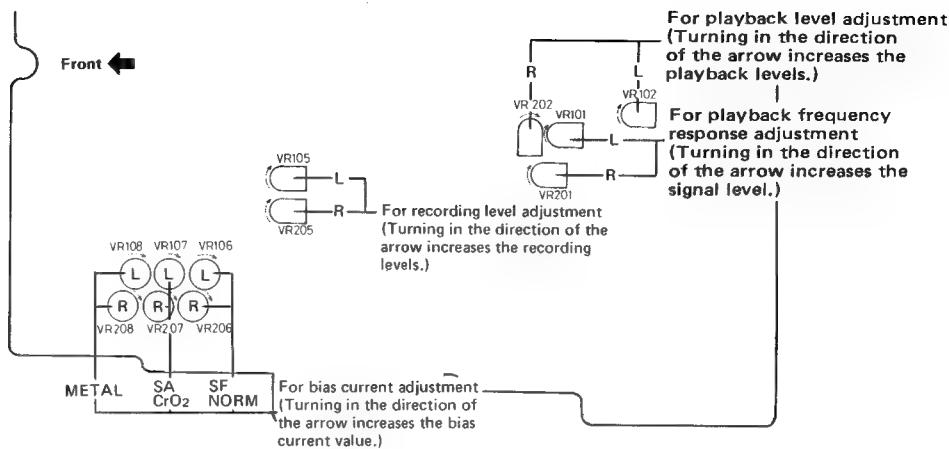


Fig. 15

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting motor speed	Connect a speed meter (an electronic counter) to the LINE OUT terminals. Play back the VTT-656A-S test tape. Adjust the semi-fixed resistor on the motor P.W. board until the reading of the speed meter is 3000 Hz.	Semi-fixed resistor on the motor P.W. board	3000 Hz	If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter.
Checking play-back torque	Employ a torque testing cassette tape for the checking.		40–70 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, clean the capstan belt, motor pulley, flywheel circumference, left reel disc circumference, etc.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT-656A-S test tape. Check to see if the reading of the meter is within 0.03% (WRMS).			If the reading becomes moving value even if conforming to the standard, a re-claim may be raised. Repairs are necessary.

[III] Adjustment location of electrical circuit

■ Main amp. P.W. board (Parts Ass'y side view)



■ FL P.W. board (Parts Ass'y side view)

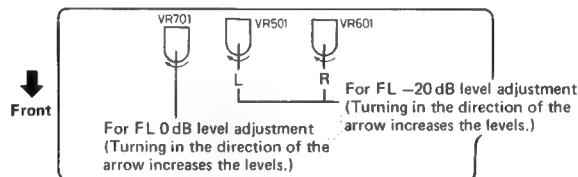


Fig. 16

[IV] Electrical circuit adjustment procedure

In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.

Adjustment should be performed in the order of steps 1, 2, 3, . . . Perform this adjustment with the ANRS switch set to OFF and output level control set to maximum.

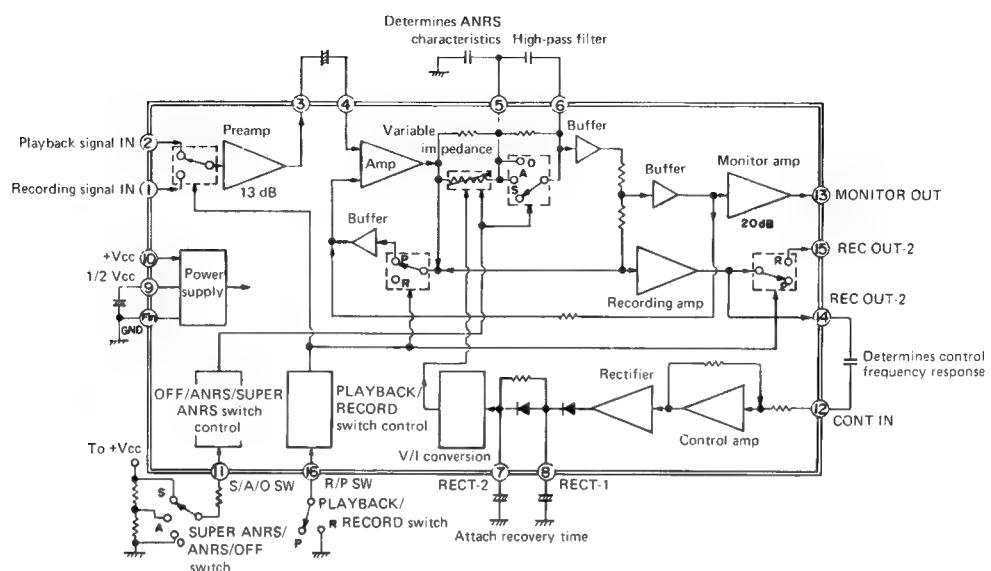
Step	Item	Adjustment	Adjusting point	Standard value	Remarks
1*	Adjusting playback level	1. Play back the VTT-664 Reference tape (1 kHz) with the tape select switch set to the SF/NORM position. 2. Adjust VR102 and VR202 until the LINE OUT becomes about -4 dBs.	VR102, 202	-4 dBs (0.5 V)	This adjustment becomes necessary when a change in playback level results (for example, due to head replacement).
2*	Playback frequency response	Playback test tape VTT-675N (1 kHz, 10 kHz) for following adjustment. 1) Adjust VR101 and VR201 so that 10 kHz signal and 1 kHz signal gains become flat response.	VR101, 201	Reference frequency; 1 kHz 0 ± 2 dB at 10 kHz	TAPE SELECT; SF/NORM
3*	FL (Fluorescence Level) indicator sensitivity	1) Make a short-circuit between the two check pins (HOLD-OFF) on the FL meter board using a clip or the like to cancel the peak-hold function. 2) Put the set into the record mode, then apply a 1 kHz signal of around -20 dB to the R-ch and L-ch of the LINE IN terminals. 3) Adjust the INPUT LEVEL control so that the output level at the LINE OUT terminals is -4 dB. 4) Adjust VR701 (0 VU ADJ) so that "0" dB lights on both R and L. At this time, "0" dB must go out on both R and L with the input ATT (attenuation) level lowered by 0.5 dB. 5) Lower the input ATT level by 20 dB. 6) Adjust VR501 (L-ch) and VR601 (R-ch) so that "-20" dB lights on both R and L. At this time, "-20" dB must go out on both R and L with the input ATT level lowered by 1 dB. 7) Repeat steps 4) – 6).	VR701 VR501, 601	0 VU -20 VU	This adjustment becomes necessary due to parts replacement.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
4*	Checking record/playback frequency response	<p>Record 1 kHz, 50 Hz and 12.5 kHz signals at an input level of 0 VU to -20 dB. Play back the tape. Check to see that the 50 Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1 kHz signal output as a reference.</p> <p>Response (dB)</p> <p>Increase in high frequencies (with a small bias current)</p> <p>Optimum level</p> <p>Decrease in high frequencies (with a larger bias current)</p> <p>50Hz 1kHz 10kHz</p> <p>Frequency (Hz)</p>	For SF/NORM tape; VR106, 206 For SA/CrO ₂ tape; VR107, 207 For Metal tape; VR108, 208	Reference frequency; 1 kHz 0 ± 3 dB at 50 Hz 0 ± 3 dB at 12.5 kHz	This checking should be performed for normal, chrome and metal tapes and for both right and left channels. 1. Bias current adjustment for a cassette deck should generally be performed referring to the record/playback frequency response. This is because the frequency response of a cassette deck depends more greatly upon the bias current than does that of an open reel deck. The current measuring method described below is an alternative one. 2. If the bias current is not properly adjusted, the record and playback characteristics become as shown left.
5	Adjusting recording level	1. Apply a 1 kHz, approx, -10 dB signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at -4 dBs at the LINE OUT terminals. 2. After checking to see if the FL indicator become 0, record the signal applied to both left and right channels using normal tape. 3. Play back the recording part. Perform the recording signal adjustment with VR105 and VR205 so that the FL indicator become 0.	VR105, 205	0 VU	The level difference between left and right channels for SF/NORM tape, chrome tape and metal tape should be less than 1 dB (1 VU). Perform the adjustment using a normal tape, level difference between recording and playback for SA/CrO ₂ and metal tapes, should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB.
6	Checking record/playback signal distortion	1. Record a 1 kHz, -4 dBs signal to LINE IN terminals and perform recording with the FL indicator become 0. 2. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		SF/NORM tape; Less than 2.5% SA/CrO ₂ tape; Less than 3% Metal tape; Less than 2%	Be sure to perform this adjustment following bias current and recording level adjustments.
7	Checking signal to noise ratio in recording/playback	1. Record a 1 kHz, 0 VU signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2. Play back the recorded part. Measure the 0 VU recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		SF/NORM, SA/CrO ₂ and Metal tapes; More than 42 dB	Apply an output (-72 dBs) to the MIC terminals with the recording level controls set to maximum so that the FL indicator become 0.
8	Checking erasing coefficient	1. Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the FL indicator become 0. 2. Perform recording with the signal enhanced by 20 dB. 3. Erase a part of the recording. 4. Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter.		More than 65 dB	For the measuring, connect a band pass filter between the deck and the electronic voltmeter.

Integrator Circuit

IC101 AN7362N
201

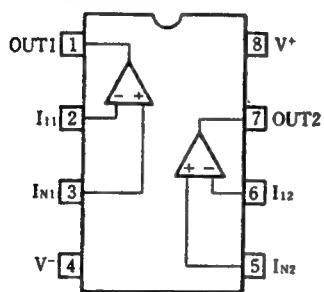
ANRS & Super ANRS Block diagram



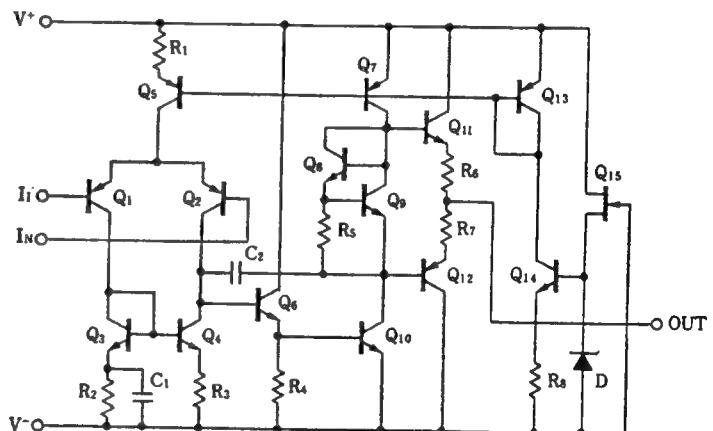
IC901 UPC4557C

Headphone & meter amp.

Top view

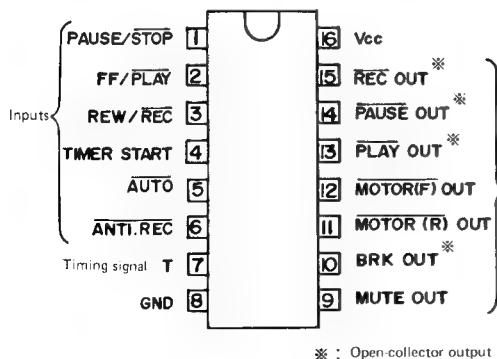


Equivalent circuit (1/2)



IC801 M54886P

Top view



Block diagram

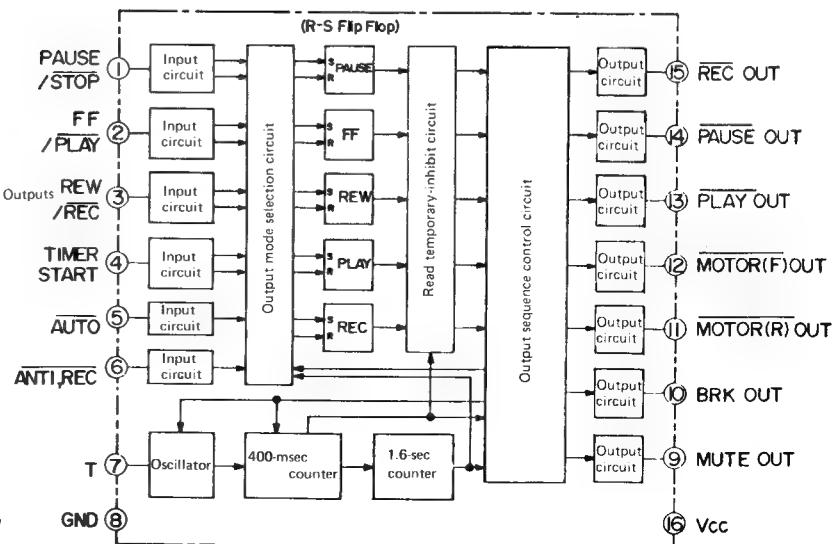
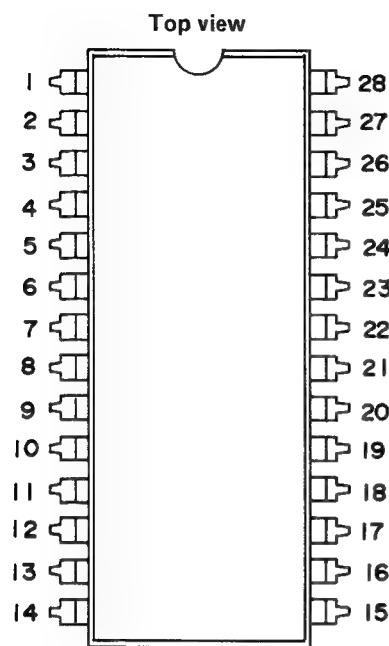
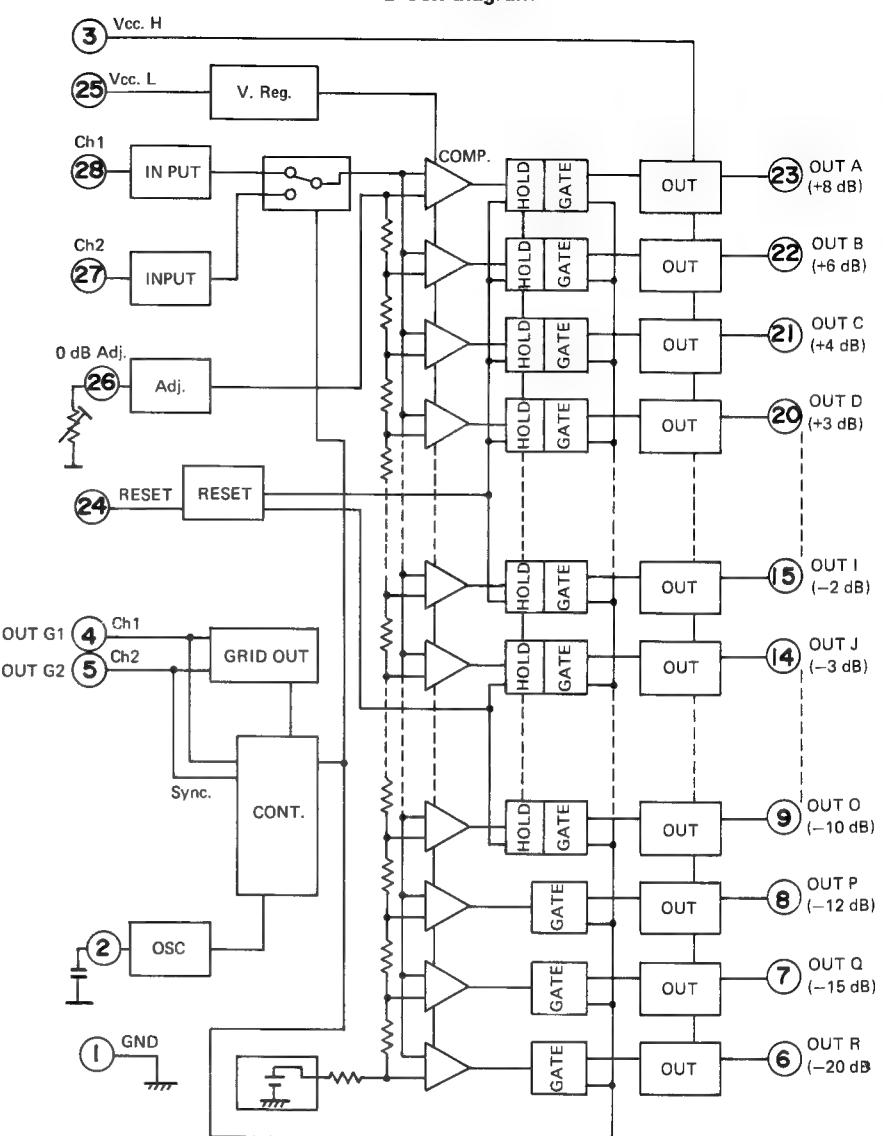


Fig. 17

AN6870

**Block diagram****Fig. 18**

Wiring Connection

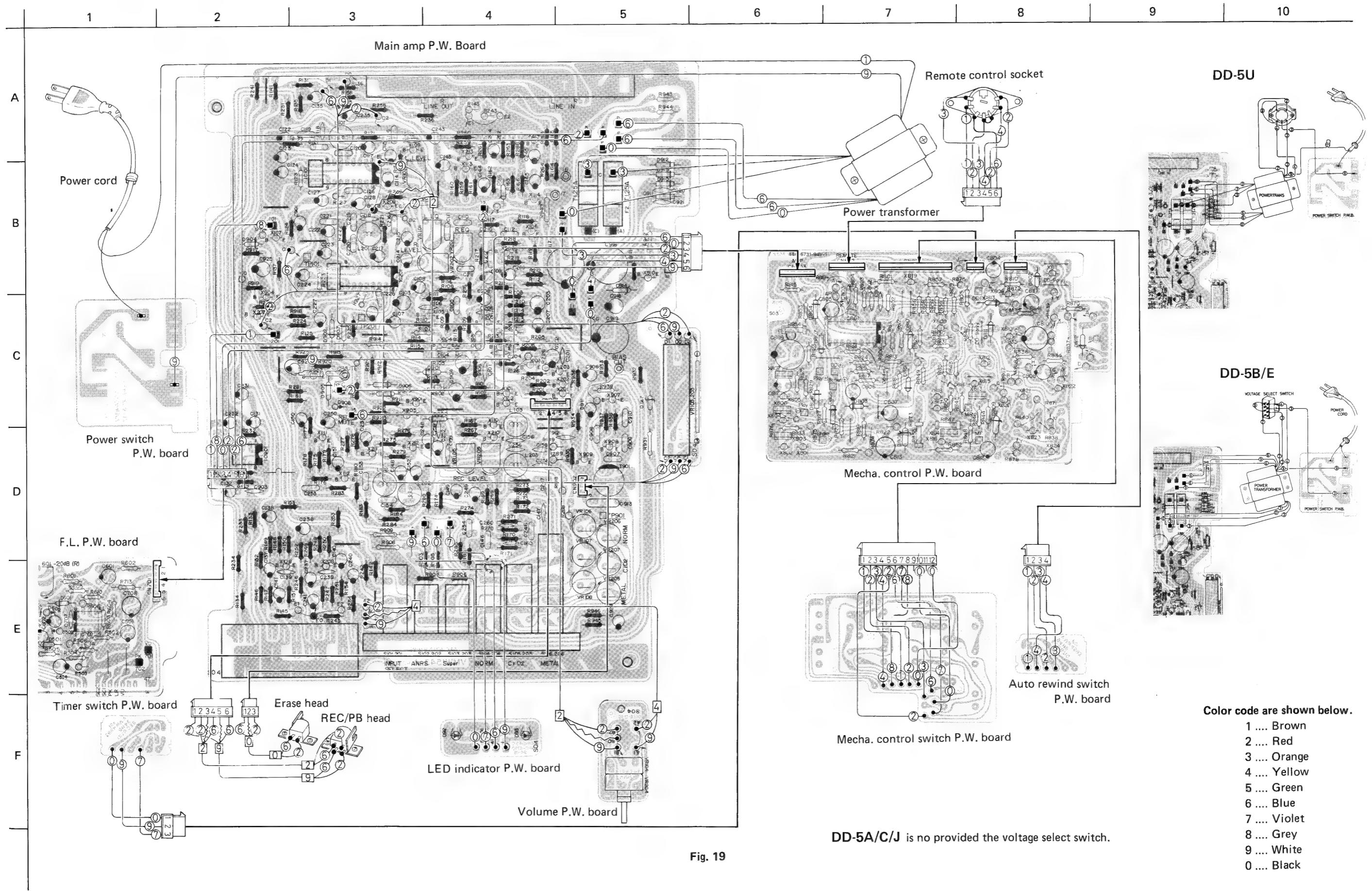


Fig. 19

P.W. Board Parts

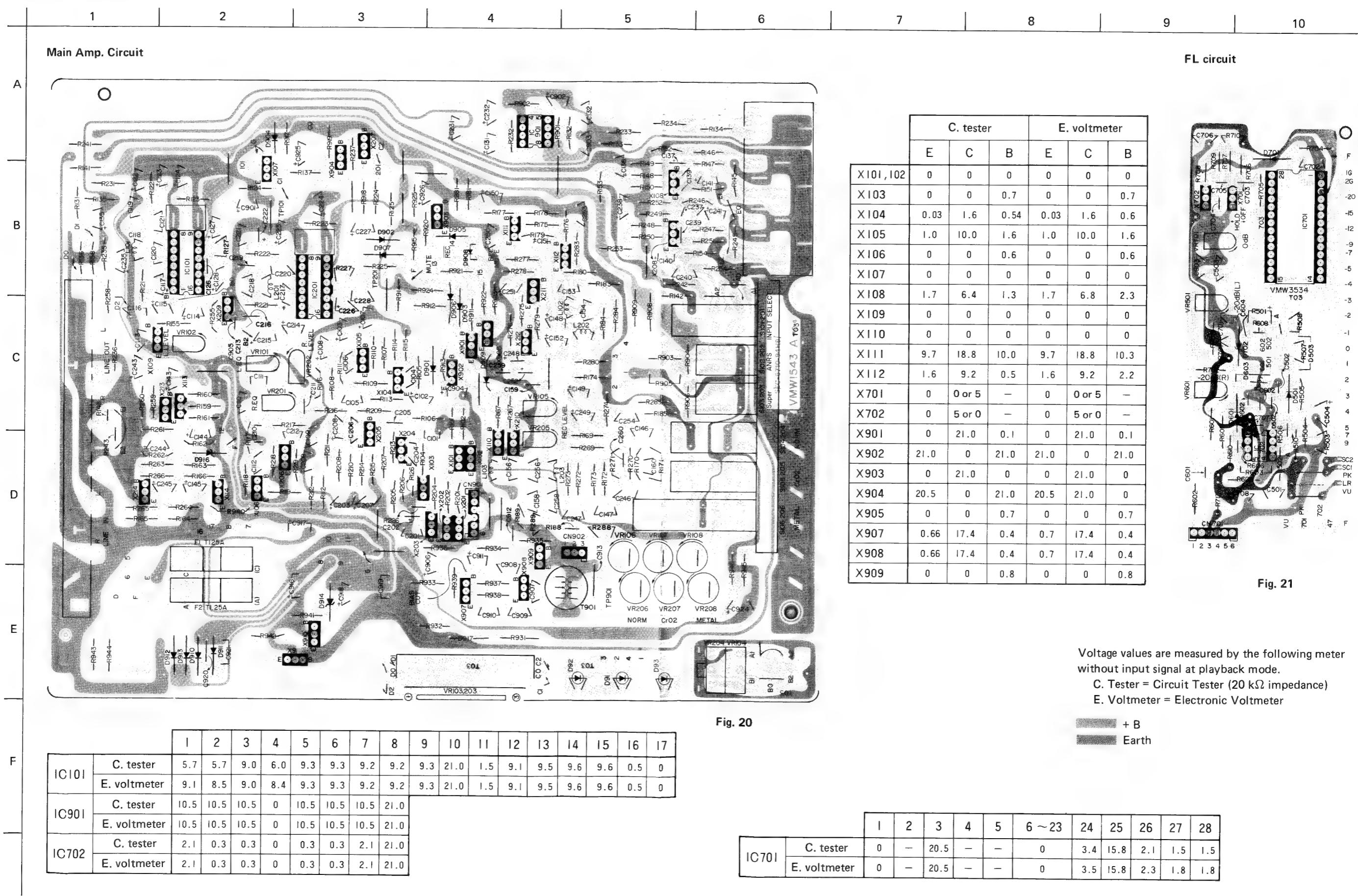


Fig. 20

FL circuit

	C. tester			E. voltmeter		
	E	C	B	E	C	B
X101,102	0	0	0	0	0	0
X103	0	0	0.7	0	0	0.7
X104	0.03	1.6	0.54	0.03	1.6	0.6
X105	1.0	10.0	1.6	1.0	10.0	1.6
X106	0	0	0.6	0	0	0.6
X107	0	0	0	0	0	0
X108	1.7	6.4	1.3	1.7	6.8	2.3
X109	0	0	0	0	0	0
X110	0	0	0	0	0	0
X111	9.7	18.8	10.0	9.7	18.8	10.3
X112	1.6	9.2	0.5	1.6	9.2	2.2
X701	0	0 or 5	-	0	0 or 5	-
X702	0	5 or 0	-	0	5 or 0	-
X901	0	21.0	0.1	0	21.0	0.1
X902	21.0	0	21.0	21.0	0	21.0
X903	0	21.0	0	0	21.0	0
X904	20.5	0	21.0	20.5	21.0	0
X905	0	0	0.7	0	0	0.7
X907	0.66	17.4	0.4	0.7	17.4	0.4
X908	0.66	17.4	0.4	0.7	17.4	0.4
X909	0	0	0.8	0	0	0.8

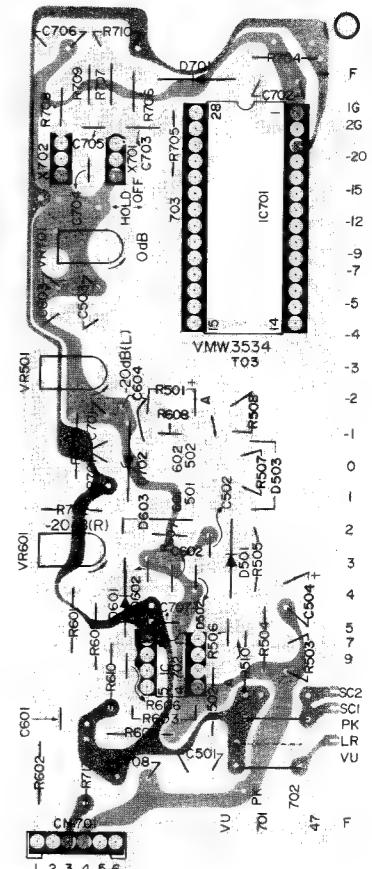


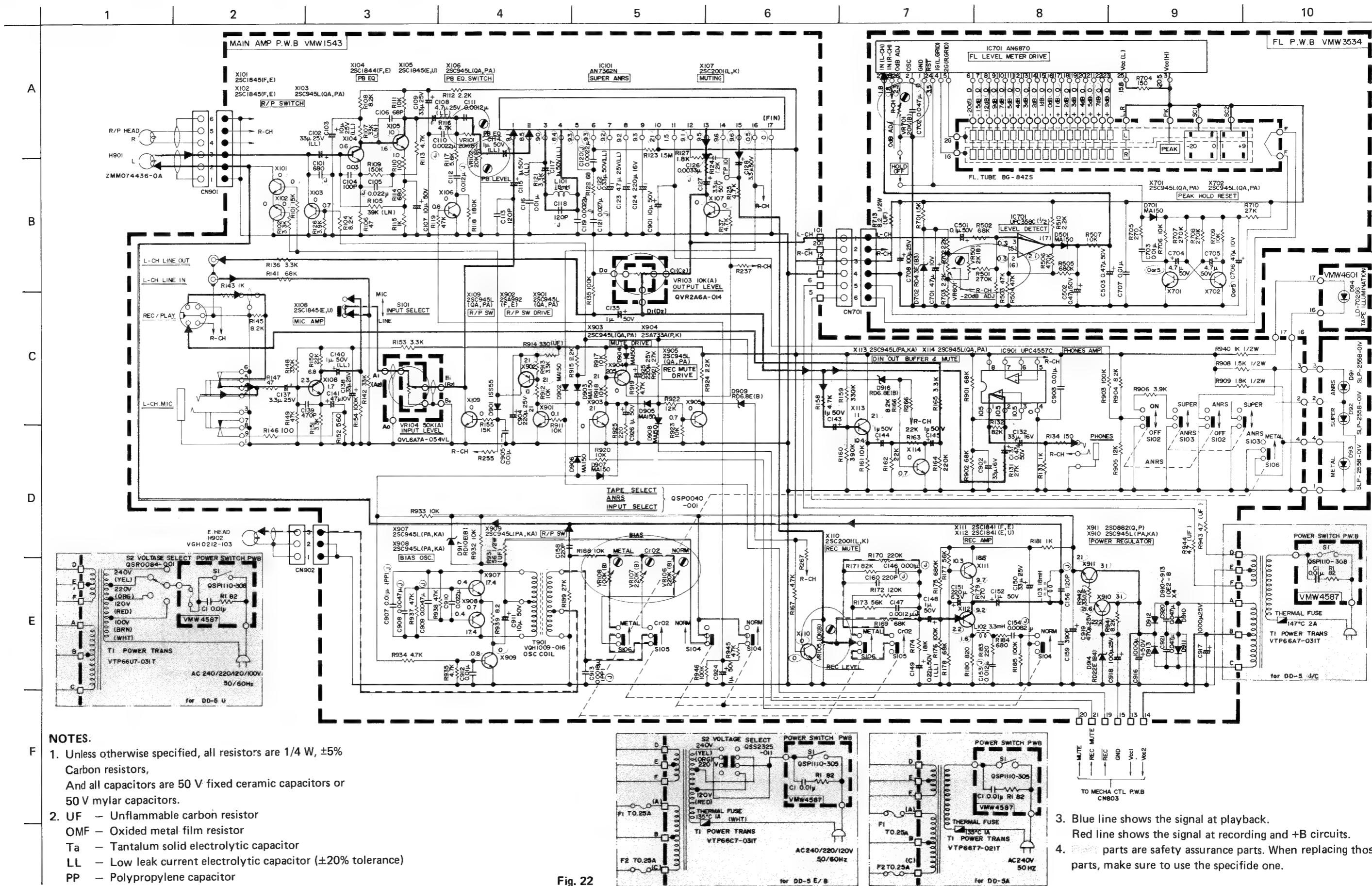
Fig. 21

Voltage values are measured by the following meter without input signal at playback mode.

C. Tester = Circuit Tester (20 kΩ impedance)
E. Voltmeter = Electronic Voltmeter

+ B
Earth

Standard Schematic Diagram of DD-5 (Amplifier Circuit)



NOTES:

- Unless otherwise specified, all resistors are 1/4 W, ±5% Carbon resistors, And all capacitors are 50 V fixed ceramic capacitors or 50 V mylar capacitors.
- UF — Unflammable carbon resistor
OMF — Oxidized metal film resistor
Ta — Tantalum solid electrolytic capacitor
LL — Low leak current electrolytic capacitor (±20% tolerance)
PP — Polypropylene capacitor
- Blue line shows the signal at playback.
Red line shows the signal at recording and +B circuits.
- Red** parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Fig. 22

Standard Schematic Diagram of DD-5 (Mecha Control Circuit)

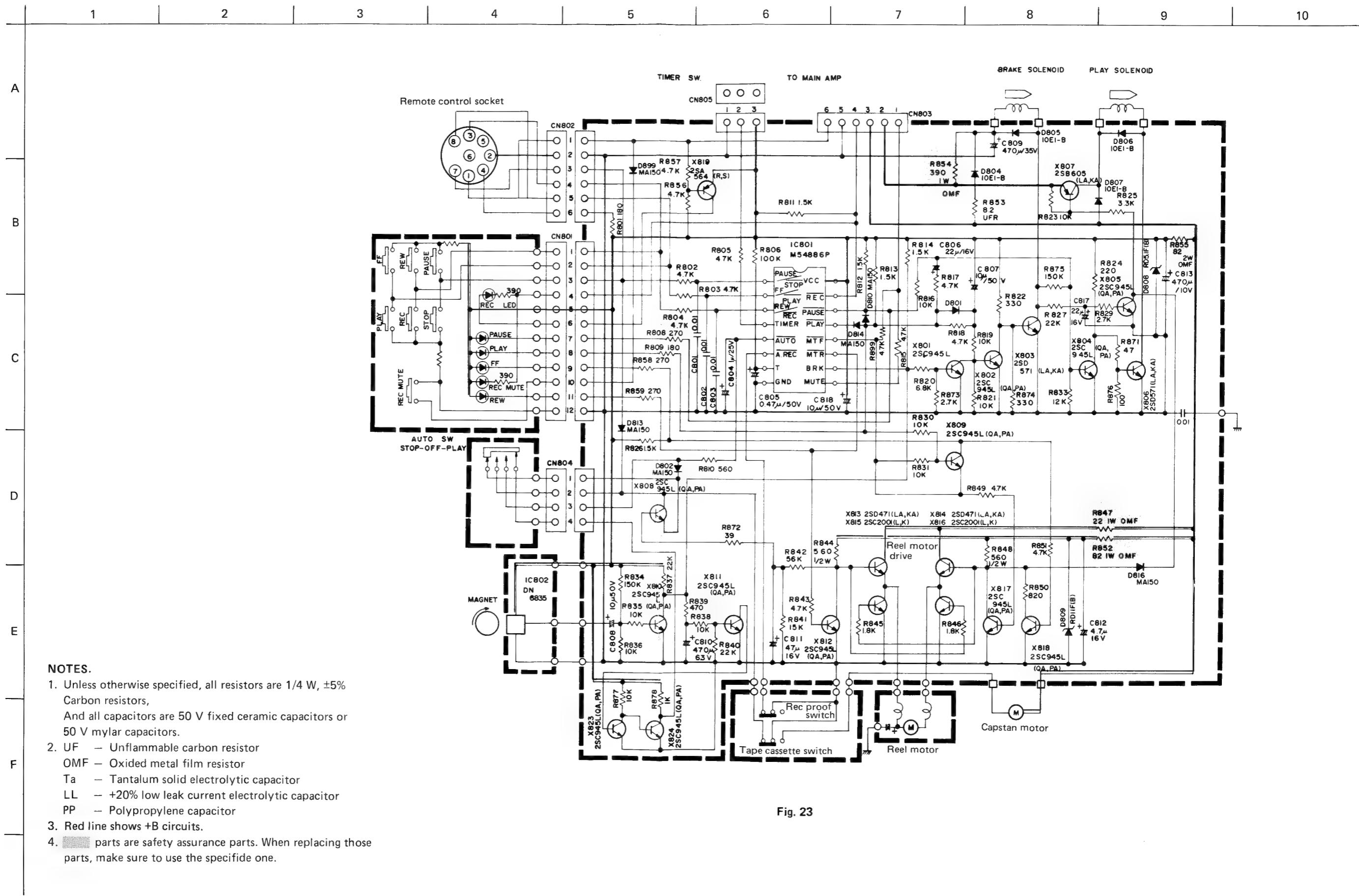


Fig. 23

Mecha. Control P.W. Board Parts

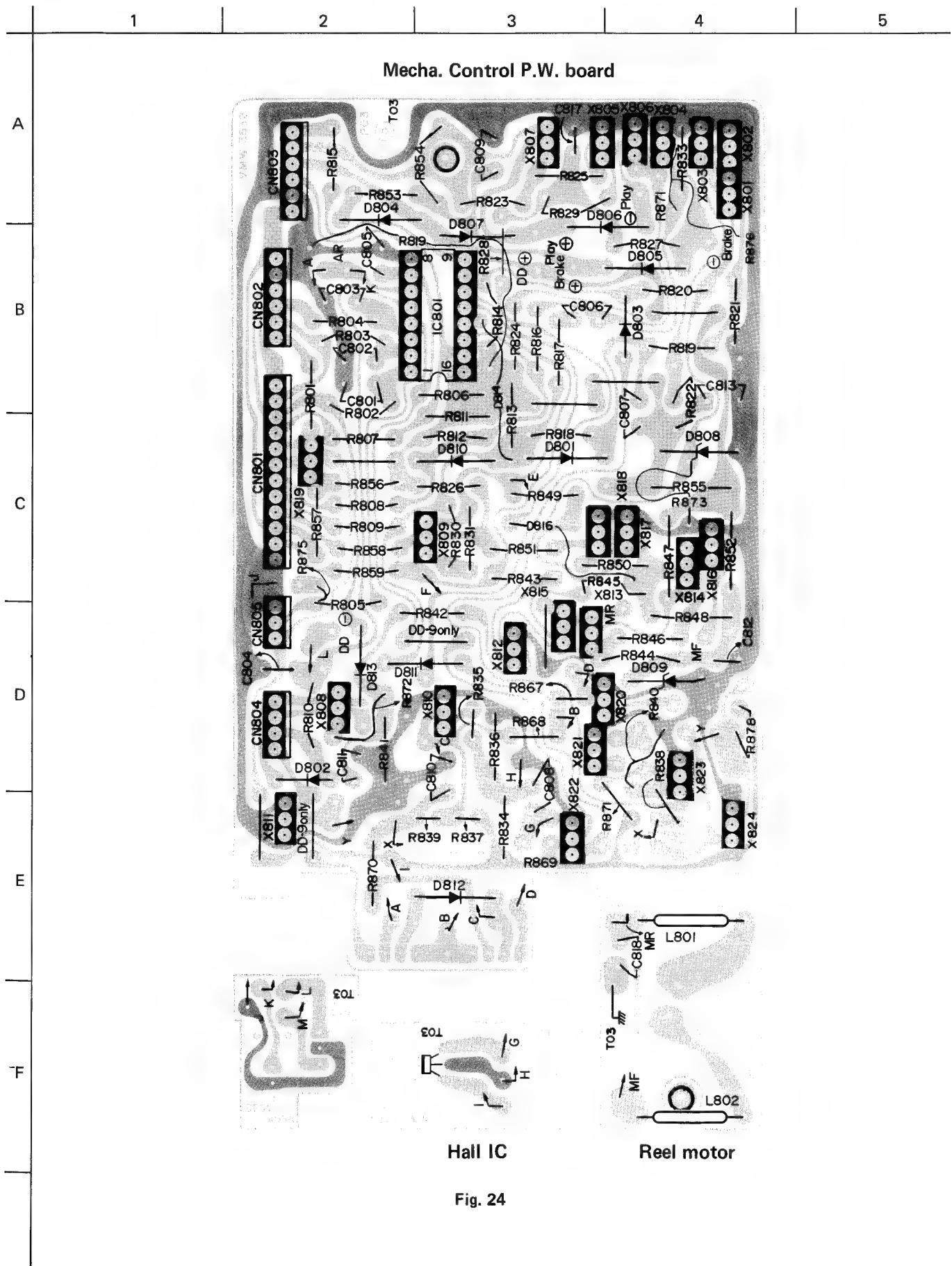


Fig. 24

Block Diagram

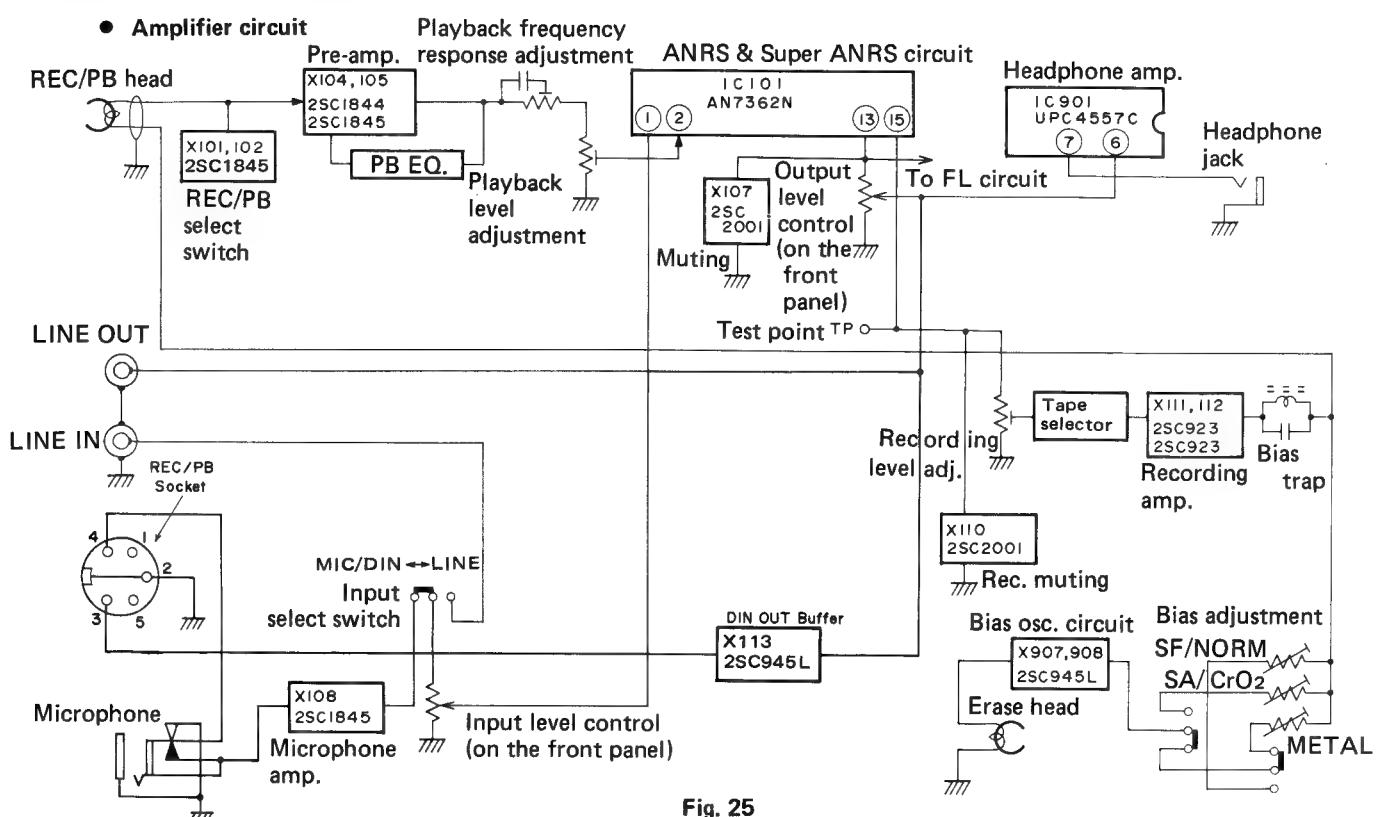


Fig. 25

● Mechanical control circuit

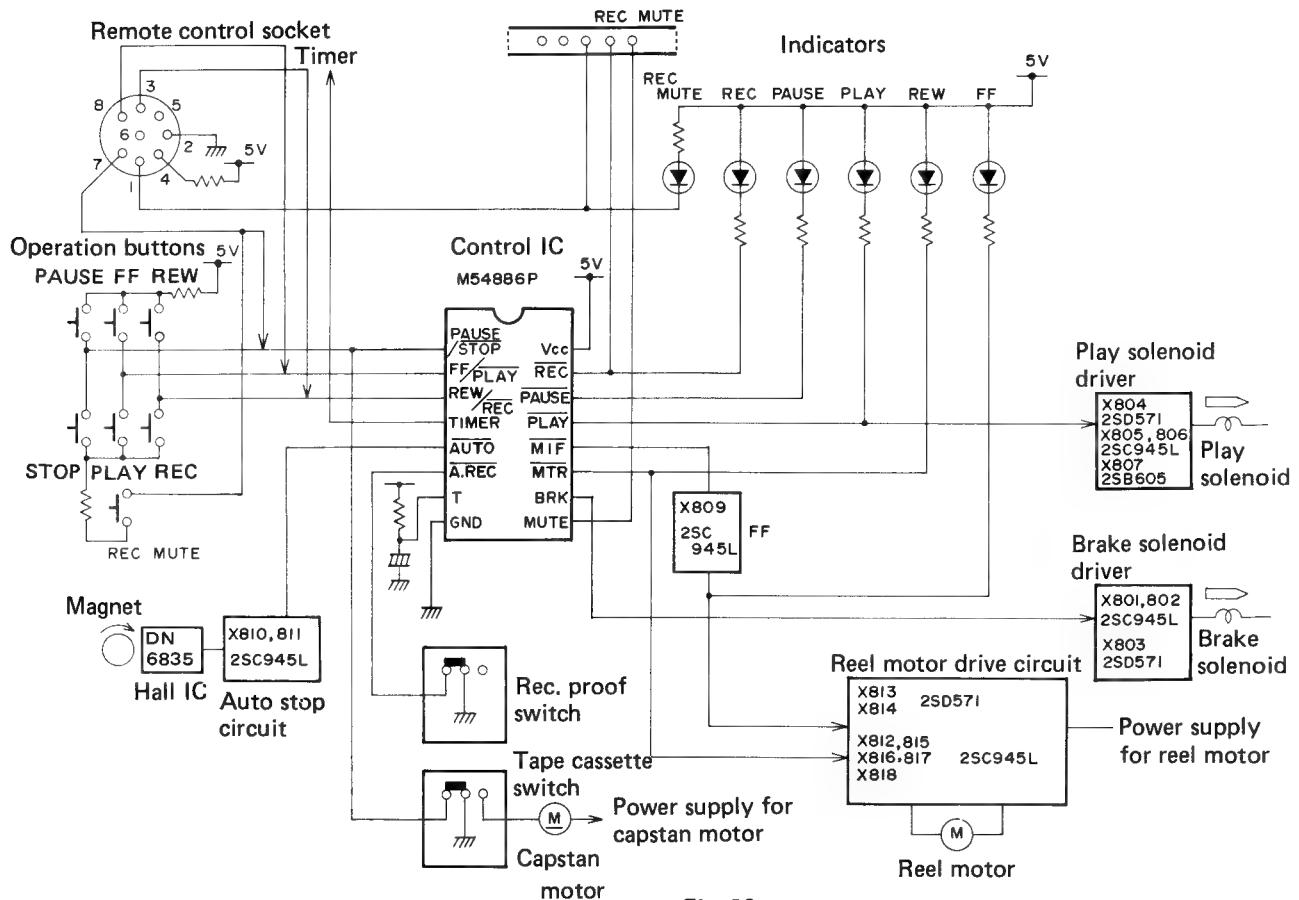
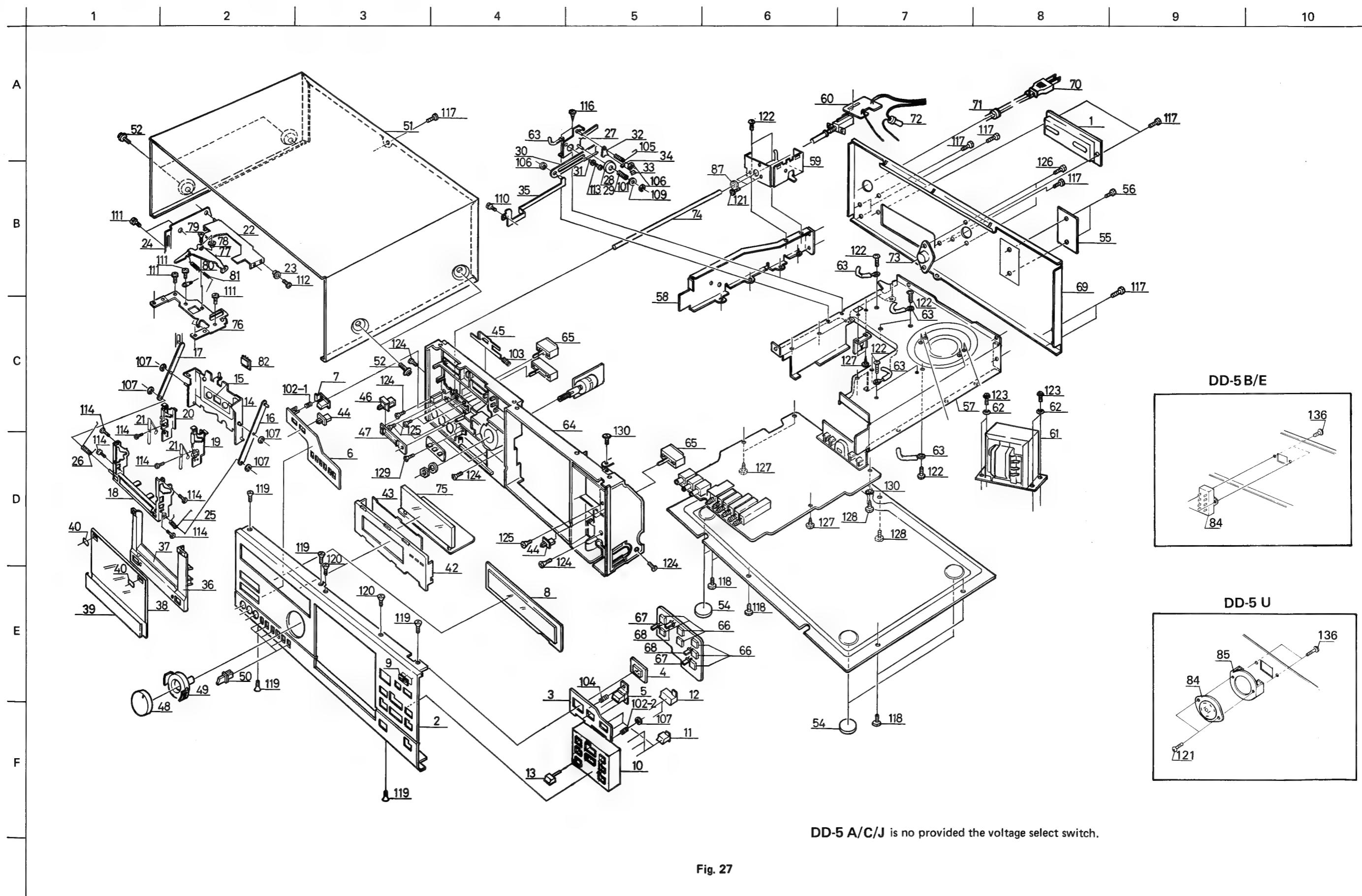
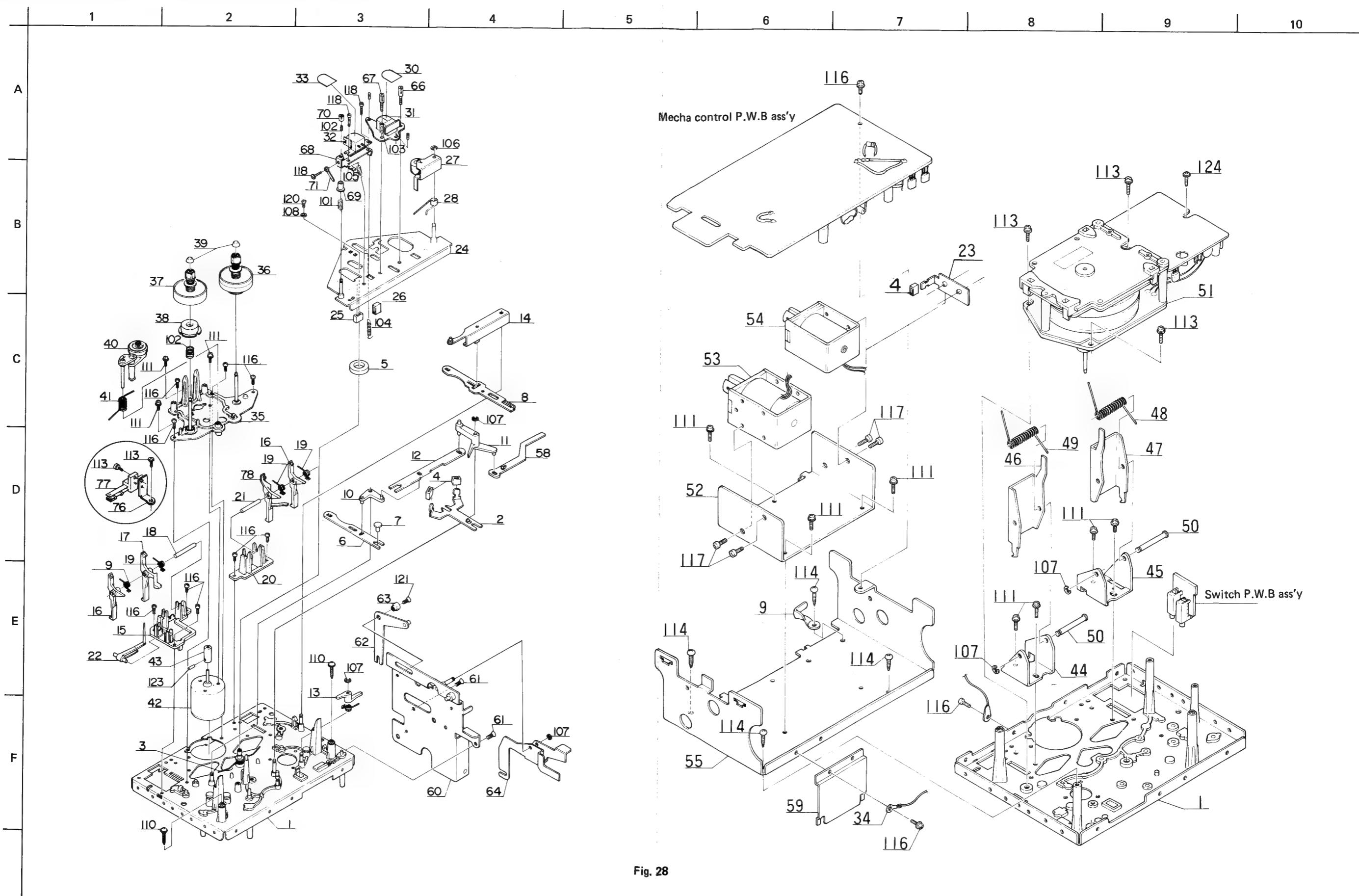


Fig. 26

Enclosure Ass'y and Electrical Parts (Except P.W. Board Parts)



Mechanical Component Parts



**Enclosure Assembly and Electrical Parts List
(Except P.W. Board Parts)**

**⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.**

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
1 (2-4,6,8,9)		VJD3213-002 ZCDD-5Y-CBF	Jack Escutcheon Front Plate Ass'y	for Reset	1 1
2		VJC1130-004	Front Plate		1
3		VJD3234-002	Escutcheon		1
4		VJK4001-001	Counter Lens		1
5		VXP4083-001	Push Button		1
6		VJD3234-001	Escutcheon	for Power	1
7		VXP4087-001	Push Button		1
8		VJD3239-001	Finder		1
9		VJD4432-002	DD Mark		1
10		VJD2162-001	Button Escutcheon		1
11		VXP4084-001	Push Button	Play, Button Eject	5
12		VXP4085-001	"		2
13		VXP4086-00A	Push Button Ass'y		1
14		VJD3252-00A	Holder Plate Ass'y		1
15		VJD4437-002	Disc Plate		1
16		VKL4380-00A	Cross Bar Ass'y	Right Left	1
17		VKL4844-00A	"		1
18		VKL4842-00B	Holder Bracket Ass'y		1
19		VJD3237-003	Tape Holder (R)		1
20		VJD3238-003	" (L)		1
21		VKY4218-001	Cassette Spring (L)	VKY4217-001(R)	1
22		VKL4403-00E	Shift Arm Ass'y		1
23		T43909-004	Metal		1
24		VKL4841-00A	Mecha. Bracket (L) Ass'y		1
25		VKW4250-005	Holder Spring		1
26		" -006	"		1
27		VKL4169-00A	Gear Frame Ass'y		1
28		VKS4236-001	Spur Gear		1
29		VKS4109-004	Brake Drum		1
30		VKS3102-001	Rack Plate		1
31		VKH4123-001	Collar		1
32		VKS4110-002	Brake Arm		1
33		VKL4271-001	Rubber Retainer		1
34		VKZ4111-001	Rubber Tire		1
35		VKL4847-00A	Arm Bracket Ass'y		1
36		VJT2049-001	Cassette Holder	Timer & Memory Timer Safety	1
37		VJT4035-001	Holder Plate		1
38		VJT3059-002	Cassette Lid		1
39		VJT4036-001	Lid Plate		1
40		VJT4037-001	Plate		2
42		VJD3235-002	Meter Escutcheon		1
43		VJK4131-001	Filter		1
44		VXS4041-001	Slide Knob		2
45		VKL4843-002	Bracket		1
46		VXS3003-001	Slide Knob	Output	1
47		VJD4431-001	Blind		1
48		VXL4127-00A	Knob Ass'y		1
49		VXL4128-001	Volume Knob		1
50		VXP4088-001	Push Button		6
51		VJC1132-001	Top Cover		1
52		VKZ3001-002	Special Screw		4
53		VJC1133-001	Bottom Cover		1
54		VJF4003-002	Foot		4

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
55		VYN2072-003KA " -002KA " -004KA " -005KA " -006KA " -007KA	Name Plate " " " " "	DD-5A DD-5B DD-5C DD-5E DD-5J DD-5U	1 1 1 1 1 1
56		E47829-002	Plastic Rivet		2
57		VKL1186-001	Amp. Chassis (R)		1
58		VKL3257-001	" (L)		1
59		VKL3258-001	Power Bracket	for Push Switch	1
60	⚠️ ⚠️ ⚠️ ⚠️ ⚠️	QSP1110-305 " -305BS " -308 " -306	Push Switch " " "	DD-5A/E DD-5B DD-5C/J DD-5U	1 1 1 1
61	⚠️ ⚠️ ⚠️ ⚠️ ⚠️	VTP66T7-021T VTP66C7-031TBS VTP66A7-031T VTP66C7-031T VTP66U7-031T	Power Transformer " " " " "	DD-5A DD-5B DD-5C/J DD-5E DD-5U	1 1 1 1 1
62		WNS3000Z	Washer	Power Trans.	4
63		VKZ4001-011	Wire Holder		8
64		VJC1131-001	Front Panel		1
65		QSS2301-102	Slide Switch		1
66		QSP0021-002A	Tact Switch		7
67		SLP-155B-01V	LED		1
68		SLP-255B-01V	"		1
69		VJC1134-003 " -002	Rear Panel "	DD-5A/C/J DD-5B/E/U	1 1
70	⚠️ ⚠️ ⚠️ ⚠️ ⚠️	QMP2560-200 QMP9017-008BS QMP1200-200 OMP3900-200 OMP7600-200	Power Cord " " " " "	DD-5A DD-5B DD-5C/J DD-5E DD-5U	1 1 1 1 1
71	⚠️ ⚠️	QHS3876-162 " -162BS	Strain Relief "	DD-5A/C/E/J/U DD-5B	1 1
73		QMC0888-008	DIN Socket	for Remote	1
74		VKS4003-004	Pipe		1
75		BG-84ZS	FL Tube		1
76		VKL3252-001	Bracket		1
77		VKL4839-00B	Lock Arm Ass'y		1
78		VKH3013-005	Collar		1
79		VKZ4143-002	Special Screw		1
80		VKW3002-043	Spring		2
81		TJN265559-04	Silencer		1
82		LD-702	LED		1
83		VKZ4001-010	Wire Holder		1
84		QSS2325-011BS " -011	Voltage Select Switch " "	DD-5B DD-5E DD-5U	1 1 1
85		QSR0084-001 VKL4275-001	Bracket	DD-5U	1
86		VKC5139-002S	Counter Knob		1
87		VKW4277-001	Ring		1
89		VYSR102-017	Spacer		1
90		VYSR101-003	Ring	Front Plate	3

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
91		VYSH203-001	Spacer		7
92		VKZ4001-009	Wire Holder		1
93		VYSH115-005	Spacer		1
96		TAH000459-01	Mark	CN803	1
101		VKW3001-006	Spring		1
102-1		VKW4265-002	Button Spring		1
102-2		VKW3001-028	Compression Spring		1
103		" -057	"		1
104		" -058	"		1
105		VKW4106-001			
106		REE2000	"E" Ring	Brake Drum x 2, Arm Bracket Ass'y x 2	4
107		REE2500	"	Push Button Ass'y x 1, Flange Shaft x 2, Holder Spring x 2	5
108		Q03093-524	Washer		1
109		WNS2600Z	"		1
110		LPSP2604R	Screw	Arm Bracket Ass'y	1
111		VKZ4143-002	Special Screw	for Mecha. Bracket — Mecha. Chassis	2
112		LPSP2606Z	Screw		1
113		LPSP2608Z	"		1
114		SDSF2605R	"	Tape Holder (R) x 2, Tape Holder (L) x 2, Cassette Spring x 2	6
115		SSSB3008C	"	Mecha. — Amp. Chassis	2
116		SBSB3006Z	"		2
117		SDSB3008R	"	Top Cover x 1, Rear Panel x 6, Jack Escutcheon x 2	9
118		SDSB3008Z	"		6
119		SSSB3008Z	"	Bottom Cover	5
120		SSSP3006CS	"	Front Plate — Front Panel	2
121		LPSP3006ZS	"	Mecha. — Front Plate	
122		SBSB3006Z	"	Power Switch, Voltage Selector (DD-5U) x 1	2
123		SDSC3008Z	"	Power Bracket x 2, Wire Holder x 7	9
124		SSSB3006Z	"	Power Transformer	4
125		SSSP2606Z	"	Front Panel	5
				Slide Switch (Timer) x 2,	4
				Slide Switch (Memory) x 2	
126		SDSP2605R	"	Remote	2
127		SBSB3006V	"	Heat Sink x 2, Main P.W.B. x 5	7
128		SBSB3008Z	"	P.W.B. Earth	1
129		SBSF2610Z	"	P.W. Board	3
130		SBSF3008C	"	Chassis Bracket — Front Panel	1
131		SSSP3008Z	"	Push Switch	2
132		WBS3000	Washer	P.W.B. Earth	1
133		Q03093-814	"		3
134		SDSB3008C	Screw	Mecha. — Amp. Chassis	2
135		LPSP2605Z	"	Bracket	2
136		SDSP3006RS	"	V. Select	2
137		SSSP2006Z	"	Output VR	2

Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VKL1184-00A	Chassis Base Ass'y		1
2	VKL4823-001	Brake Bar		1
3	VKW4243-001	Brake Bar Spring		1
4	VKZ4129-001	Rubber Tire		2
5	VKZ4005-003	Stopper		1
6	VKL4824-001	Lock Plate (1)		1
7	VKS4233-001	Lock Bush		3
8	VKL4945-001	Slide Plate		1
9	VKL4944-001	Stopper		1
10	VKS4258-00B	Connecting Lever Ass'y		1
11	VKS4260-00B	Lock Lever Ass'y		1
12	VKL4827-001	Lock Plate (2)		1
13	VKS4262-001	Pause Lever		1
14	VKL4828-00A	Play Arm Ass'y		1
15	VKS2110-002	Switch Holder (L)		1
16	VKS4263-001	Pressure Lever		1
17	VKS4264-001	Switch Lever		1
18	VKH4264-001	Shaft		1
19	VKW4138-001	Pressure Lever Spring		1
20	VKS3125-001	Switch Holder (R)		1
21	VKH4196-001	Shaft		1
22	VKS4265-002	Cassette SW. Lever		1
24	VKL4830-00A	Slide Base Ass'y		1
25	VKZ4129-001	Rubber Tire		1
26	TJN265559-02	Silencer		1
27	VKP4113-00A	Pinch Roller Arm Ass'y		1
28	VKW4240-001	Pinch Roller Spring		1
29	VKS4266-001	Shift Lever		1
30	VKS2102-001	Head Mount Base		1
31	ZMM074436-0A	R/P Head Ass'y	Head Plate = THC037417-02	1
32	VGH0212-103	E. Head Ass'y	Head Label = THS000489-02	1
33	VKH4215-001	Head Collar		1
34	VMZ0008-00A	Wire Ass'y		1
35	VKL3155-00A	Reel Disk Bracket Ass'y		1
36	VKR4113-00C	Take-up Reel Ass'y		1
37	VKR4118-00B	Supply Reel Ass'y		1
38	VKW3001-026	Comp. Spring		1
39	VKS4131-002	Reel Stopper		2
40	VKS4151-00B	Idler Ass'y Unit		2
41	VKS4134-001	Idler Spring		1
42	MDN-7V1-3	Reel Motor		1
43	VKR4121-001	Motor Pulley		1
44	VKL4832-001	Shaft Holder		1
45	VKL4832-002	"		1
46	VKL4833-001	Solenoid Lever		1
47	VKL4833-002	"		1
48	VKW4241-001	Solenoid Lever Spring		1
49	VKW4241-002	"		1
50	VKH4292-001	Shaft		2
51	MC950A	DD Motor Ass'y		1
52	VKL4867-001	Solenoid Bracket		1
53	VGP0301-005	D.C. Solenoid Ass'y		1
54	VGP0201-008	"		1
55	VKL3254-002	Holder Bracket	Play Lock	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
56	VKC5134-002S	Counter Ass'y		1
57	VKB3000-025	Counter Belt		1
58	VKL4912-002	Lock Bar		1
59	VKL4913-001	Flywheel Cover		1
60	VKL4835-00A	Mecha. Bracket (R) Ass'y		1
61	VKZ4143-002	Special Screw	Mecha. Bracket	3
62	VKL4836-00A	Eject Arm Ass'y		1
63	VKH3013-004	Flange Collar		1
64	VKL4838-003	Eject Lever		1
65	VKL4870-001	Counter Bracket		1
66	VMZ0008-00A	Wire Ass'y		1
67	QXT6100-020	Tube		2
68	VKW4241-002	Solenoid Lever Spring		1
69	51739-2	Lug		1
70	VKW4191-001	Pressure Lever Spring		1
71	VKS4263-001	Pressure Lever		1
72	VKW4138-001	Pressure Lever Spring		1
73	VKH4309-001	Collar		1
74	VKZ4001-011	Wire Holder		1
75	VKW4268-001	Lock Bar Spring		1
76	VYSR110-009	Spacer		1
77	VMZ0008-00A	Wire Ass'y		1
78	VKL4944-001	Stopper		1
79	VKZ4129-001	Rubber Tire		1
101	VKW3001-020	Comp. Spring		2
103	VKW3001-036	Comp. Spring		1
104	VKW3002-005	Spring	Slide Base	1
106	REE2000	"E" Ring		1
107	REE2500	"	Connecting Lever Ass'y x 1, Pause Lever x 1, Play Arm Ass'y x 1, Shaft x 2, Eject Lever x 1	6
108	WNS3000N	Washer		1
109	WSS2000N	"		1
110	GPSA2612Z	Tap. Screw	Slide Base	2
111	LPSP2604Z	Screw	Reel Motor x 3, Shaft Holder x 4, Solenoid Bracket x 3	10
112	LPSP2605Z	"	Counter Bracket	2
113	LPSP2606Z	"	DD Motor Ass'y	3
114	SBSB2608Z	"	Holder Bracket	4
115	SPSP2006Z	"	Head Mount Base	1
116	SPSP2606Z	"	Pressure Lever Spring x 5, Wire Ass'y x 1, Reel Ass'y Unit x 4, Flywheel Cover x 2	12
117	SPSP3004ZS	"	D.C. Solenoid Ass'y	4
118	SPSX2010N	"	Head	2
119	SPSX2014Z	"	E. Head	1
120	SSSK2650Z	Mini Screw	Slide Base	1
121	SSSP2605Z	Screw	Flange Collar	1
122	SPSP2606Z	"	Flywheel Cover	2
123	YRS2603B	"	Motor Pulley	1
124	GPSA2608Z	Tap. Screw	DD Motor	1
125	Q03095-206	Washer		1
126	SPSP2605Z	Screw		1
127	LPSP2010Z	"		1
128	SBSB2008Z	"		1

Main amp P.W.B Parts List

**⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.**

Ref. No.		Parts No.	Parts Name	Remarks		Q'ty
R909		QRD121K-182	C. Resistor	1.8 kΩ	½ W	1
R914		ORD149J-331S	"	330 Ω	¼ W	1
R931		ORD126K-560	"	56 Ω	½ W	1
R939		QRD147J-8R2S	"	8.2 Ω	¼ W	1
R940		QRD121K-102	"	1 kΩ	½ W	1
R942		QRD149J-330S	Fail Safe C. Resistor	33 Ω	¼ W	1
R943, 944		" -4R7S	"	4.7 Ω	"	2
VR101, 201, 102, 202,		QVP8A0B-024	V. Resistor	20 kΩ		4
VR103, 203		QVR2A6A-014	"	10 kΩ		2
VR104, 204		QLV6A7A-054VL	"	50 kΩ		2
VR105, 205		QVP8A0B-014	"	10 kΩ		2
VR106, 206, 107, 207		QVP4A0B-224	"	220 kΩ		4
VR108, 208		" -104	"	100 kΩ		2
		TAZ336499-04	Volume Rug	Input VR		1
C101, 201		QCS31HJ-681Z	C. Capacitor	680 pF	50 V	2
C102, 202		QEB41EM-336M	E. Capacitor (Low Leak)	33 μF	25 V	2
C103, 203		" -106M	"	10 μF	"	2
C104, 204		QCS31HK-101Z	C. Capacitor	100 pF	50 V	2
C105, 205, 910		QFM31HJ-223Z	M. Capacitor	0.022 μF	"	3
C106, 206		QCS31HK-680Z	C. Capacitor	68 pF	"	2
C107, 207, 901, 911		QET61HR-106ZM	E. Capacitor	10 μF	"	4
C108, 208, 123, 223		QEB41EM-475M	E. Capacitor (Low Leak)	4.7 μF	25 V	4
C109, 209, 138, 238,		QET61ER-336ZM	E. Capacitor	33 μF	"	6
150, 250		QFM31HJ-222Z	M. Capacitor	0.0022 μF	50 V	4
C110, 210, 120, 220		" -122Z	"	0.0012 μF	"	4
C111, 211, 147, 247		" -123Z	"	0.012 μF	"	4
C112, 212, 153, 253		QCS11HK-121	C. Capacitor	120 pF	"	2
C113, 213		QEB41HM-105M	E. Capacitor	1 μF	"	6
C114, 214, 115, 215,		QFM41HK-103	M. Capacitor	0.01 μF	"	2
117, 217		QCS31HJ-121Z	C. Capacitor	120 pF	"	2
C116, 216		QFM41HJ-222	M. Capacitor	0.0022 μF	"	2
C118, 218		" -273	"	0.027 μF	"	2
C119, 219		QEB41HM-334M	E. Capacitor	0.33 μF	"	2
C121, 221		QET41CR-227N	"	220 μF	16 V	2
C122, 222		QFM31HJ-332Z	M. Capacitor	0.0033 μF	50 V	1
C124, 224		QET61HR-335ZM	E. Capacitor	3.3 μF	"	4
C126		" -474ZM	"	0.47 μF	"	2
C127, 227, 128, 228		QET61CR-336ZM	"	33 μF	16 V	3
		QET61HR-105ZM	"	1 μF	50 V	6
C131, 231		QEB41EM-335M	"	3.3 μF	25 V	2
C132, 232, 902		QCS31HK-471Z	C. Capacitor	470 pF	50 V	2
C135, 235, 152, 252,		QET61CR-476ZM	E. Capacitor	1 μF	25 V	2
924, 926		QET41HR-105N	"	47 μF	10 V	2
C137, 237		QFM31HJ-102Z	M. Capacitor	1 μF	50 V	8
C139, 239		QEB41HM-224M	E. Capacitor (Low Leak)	0.001 μF	"	2
C140, 240		QET40JR-227N	E. Capacitor	0.22 μF	"	2
C141, 241		QFM31HJ-822Z	"	220 μF	6.3 V	2
C143, 243, 144, 244,		QCS12HJ-121	M. Capacitor	0.0082 μF	50 V	2
145, 245, 148, 248		QCS11HK-221	C. Capacitor	120 pF	500 V	2
C146, 246		QCS11HJ-391	"	220 pF	50 V	2
C149, 249		" -221	"	390 pF	"	2
C151, 251		QCF11HP-103	M. Capacitor	220 pF	"	2
C154, 254		QET41ER-227N	C. Capacitor	0.0033 μF	"	1
C156, 256		QFP82AJ-103	E. Capacitor	0.01 μF	"	3
C158, 258		QFP82XJ-182	P.P. Capacitor	220 pF	25 V	2
C159, 259		QFM31HJ-472Z	M. Capacitor	0.01 μF	100 V	1
C160, 260		QCF11HP-103	C. Capacitor	0.0047 μF	50 V	2
C226		QET41ER-227N	E. Capacitor	0.01 μF	"	1
C903, 905, 912		QFP82AJ-103	P.P. Capacitor	0.0018 μF	"	1
C904, 925		QFP82XJ-182	M. Capacitor	0.0018 μF	"	1
C907		QCF11HP-103	C. Capacitor	0.0018 μF	"	1
C908, 909		QFM31HJ-472Z	E. Capacitor	0.0018 μF	"	1
C912		QFP82AJ-103	P.P. Capacitor	0.0018 μF	"	1
C913		QFP82XJ-182	M. Capacitor	0.0018 μF	"	1

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
C916, 917 C918 C919 C920, 921 C927	⚠	QET41HR-108N QET41ER-107N " -477N QCY12HK-472K QET40JR-107N	E. Capacitor " " " 470 μF C. Capacitor E. Capacitor	1000 μF 50 V 100 μF 25 V 470 μF " 0.0047 μF 100 V 100 μF 6.3 V	2 1 1 1 1
D901 D902-908 D909, 916 D910-913 D914		1SS55 MA150 RD6.8E(B) 10E2-B RD22E(B4)	Diode " Zener Diode " " "		1 7 2 4 1
D917		RD10E(B) SLP-255B-01N 2SC1845 2SC945L(QA,PA) 2SC1844(F, E)	" LED Transistor "	Green	1 3 4 11 2
X101, 201, 102, 202 X103, 203, 106, 206, 109, 209, 114, 214, 901, 903, 905 X104, 204		2SC1845(E, U) 2SC2001(L, K) 2SC1841(F, E) 2SC1841(E, U) 2SC945L(PA,KA)	" " " " " " " " "	or 2SC1843(F, E) or 2SD1020(JHPE)	4 4 2 2 4
X902 X904 X909, 910 X911	⚠ ⚠	2SA992(F, E) 2SA733A(P, K) 2SC945L(PA, KA) 2SD882(Q, P)	" " " " " " "		1 1 2 1
IC101, 201		AN7362N	Integrated Circuit		2
IC901		UPC4557C	"		1
L101, 201 L102, 202 L103, 203 T901		VQP0001-183S " -332M " -183S VQH1009-016	Inductor " " Osc. Coil		2 2 2 1
		VYH4514-002 QSP0040-001 VMJ5004-002 VMJ6003-002 QMV5005-006 " -003 VKL4940-001 VKL4888-001 DPSP3008ZS E43727-002	Shield Case Push Switch Jack Ass'y " " Plug Ass'y " " Shield Plate Heat Sink Screw Wrapping Tab	for T901 MIC & HP PIN & DIN R/P Head E. Head for X911 " "	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 25
		VMZ0005-001 V44611-005 QWY123-019	Post Pin Formed Bus Wire Bus Wire	12.5 mm	4 1 17

Mecha. Control P.W.B. Parts List

parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
R801, 809		VMW3532-101	P.W. Board		1
R802-805, 815, 817, 818, 843, 849, 851, 856, 857		QRD147J-181S " -472S	C. Resistor "	180 Ω ¼ W 4.7 kΩ "	2 12
R806		" -104S	"	100 kΩ "	1
R807		V44611-008	Formed Bus Wire		1
R808		QRD147J-271S	C. Resistor	270 Ω ¼ W	1
R810		" -561S	"	560 Ω "	1
R811-814, 826		" -152S	"	1.5 kΩ "	5
R816, 819, 821, 823, 830, 831, 836, 838		" -103S	"	10 kΩ "	7
R820		" -682S	"	6.8 kΩ "	1
R822, 874		QRD143J-331S	"	330 Ω "	1
R824		QRD147J-221S	"	220 Ω "	1
R825		" -332S	"	3.3 kΩ "	1
R827, 837, 840		" -223S	"	22 kΩ "	3
R829		" -272S	"	2.7 kΩ "	1
R833		" -123S	"	12 kΩ "	1
R834		" -123S	"	12 kΩ "	1
R835, 877		QRD143J-103S	"	10 kΩ "	2
R837		" -223S	"	22 kΩ "	1
R839		" -471S	"	470 Ω "	1
R841		QRD147J-153S	"	15 kΩ "	1
R842		" -563S	"	56 kΩ "	1
R844, 848		QRD121K-561	"	560 Ω "	2
R845, 846		QRD147J-182S	"	1.8 kΩ "	2
R847		ORG019J-220	O.M.F. Resistor	22 Ω 1 W	1
R850		QRD147J-821S	C. Resistor	820 Ω ¼ W	1
R852		QRG019J-820	O.M.F. Resistor	82 Ω 1 W	1
R853		QRD126J-220	Fail Safe C. Resistor	22 Ω ½ W	1
R854		QRG019J-391	O.M.F. Resistor	390 Ω 1 W	1
R855		ORG029J-101	"	100 Ω 2 W	1
R872		QRD143J-390S	C. Resistor	39 Ω ¼ W	1
R873		QRD141J-272S	"	270 Ω "	1
R875		QRD143J-154S	"	150 kΩ "	1
R876		" -101S	"	100 Ω "	1
		V44611-008	Formed Bus Wire		7
C801, 802, 803		OCF11HP-103	C. Capacitor	0.01 μF 50 V	3
C804		QET41HR-105N	E. Capacitor	1 μF "	1
C805		QEB41HM-474M	E. Capacitor (Low Leak)	0.47 μF "	1
C806, 817		QET41CR-226N	E. Capacitor	22 μF 16 V	2
C807, 808, 819		QET41HR-106N	"	10 μF 50 V	3
C809		QET41VR-477N	"	470 μF 35 V	1
C810, 813		QET40JR-477N	"	470 μF 6.3 V	2
C811, 812		QET41CR-476N	"	47 μF 16 V	2
C818		QCF11HP-103	C. Capacitor	0.01 μF 50 V	1
D801-803, 810, 813, 814, 816		MA150	Si. Diode		7
D804-807		10E1-B	"		4
D808		RD5.1F(B)	Zener Diode		1
D809		RD11F(B)	"		1
X801, 802, 804, 805, 808, 809, 810, 811, 812, 817, 818, 823, 824		2SC945L(QA,PA)	Si. Transistor		13
X803, 806		2SD571(LA,KA)	"		2
X807		2SB605(LA,KA)	"		1
X813, 814		2SD471(LA,KA)	"		2
X815, 816		2SC2001(L, K)	"		2
X819		2SA733A(P, K)	"		1
IC801		M54886P	Intergrated Circuit		1
IC802		DN6835	"		1
R888		QRG026J-120	O.M.F. Resistor		1
R998		*QRD149J-5R6S	C. Resistor (UF)		1
		QM21010-053	Lug Strip Ass'y	for R888	1

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
CN801		QMV5004-012	Plug Ass'y		1
CN802, 803		" -006	"		2
CN804		" -004	"		1
CN805		" -003	"		1
		TAH000459-01	Mark		1
		E43727-003 QCF11HP-473 QSP0029-001	Wrapping Pin F.C. Capacitor Slide Switch	Tape Switch Rec. Proof	8 1 1 1
L801, 802		T41572-001	Inductor		2

Display P.W.B. Parts List

⚠ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
IC701		VMW3534-003	P.W. Board		1
IC702		BG-84ZS	FL. Tube		1
X701, 702		AN6870	Integrated Circuit		1
		UPC358C	"		1
		2SC945L(QA,PA)	Transistor		2
D501, 601, 701		MA150	Diode		3
D702		RD4.3E(B3)	Zener Diode		1
R501, 707, 708		QRD143J-274S	C. Resistor	270 kΩ 1/4 W	3
R601		QRD147J-274S	"	270 kΩ "	1
R502, 602		" -683S	"	68 kΩ "	2
R503		QRD143J-223S	"	22 kΩ "	1
R603		QRD147J-223S	"	22 kΩ "	1
R504, 604		" -273S	"	27 kΩ "	2
R505, 605		" -684S	"	680 kΩ "	2
R506, 606		QRD143J-474S	"	470 kΩ "	2
R507, 607, 706, 709		" -103S	"	10 kΩ "	4
R510, 610, 703		QRD147J-222S	"	2.2 kΩ "	3
R701		QRD143J-152S	"	1.5 kΩ "	1
R702		QRD147J-182S	"	1.8 kΩ "	1
R704		" -151S	"	150 Ω "	1
R705		" -271S	"	270 Ω "	1
R710	⚠	QRD143J-273S	"	27 kΩ "	1
		V44611-008	Formed Bus Wire	(R711, 712)	1
		QRD126K-8R2	Fail Safe C. Resistor	8.2 Ω 1/2 W	1
VR701		QVP8A0B-024	V. Resistor		1
VR501, 601		" -023	"		2
C501, 601		QET41HR-104N	E. Capacitor	0.1 μF 50 V	2
C502, 602, 503, 603		" -474N	"	0.47 μF "	4
C701, 706		QET41AR-476N	"	47 μF 10 V	2
C702, 707		QCF11HP-473	C. Capacitor	0.047 μF 50 V	2
C703		" -103	"	0.01 μF "	1
C704, 705		QET41HR-475N	E. Capacitor	4.7 μF "	2
C708		QET41ER-107N	"	100 μF 25 V	1
CN701		QMV5005-006	Plug Ass'y		1
		V44611-008	Formed Bus Wire	10 mm	2
		E43727-002	Wrapping Pin		2

Other P.W. Board Parts

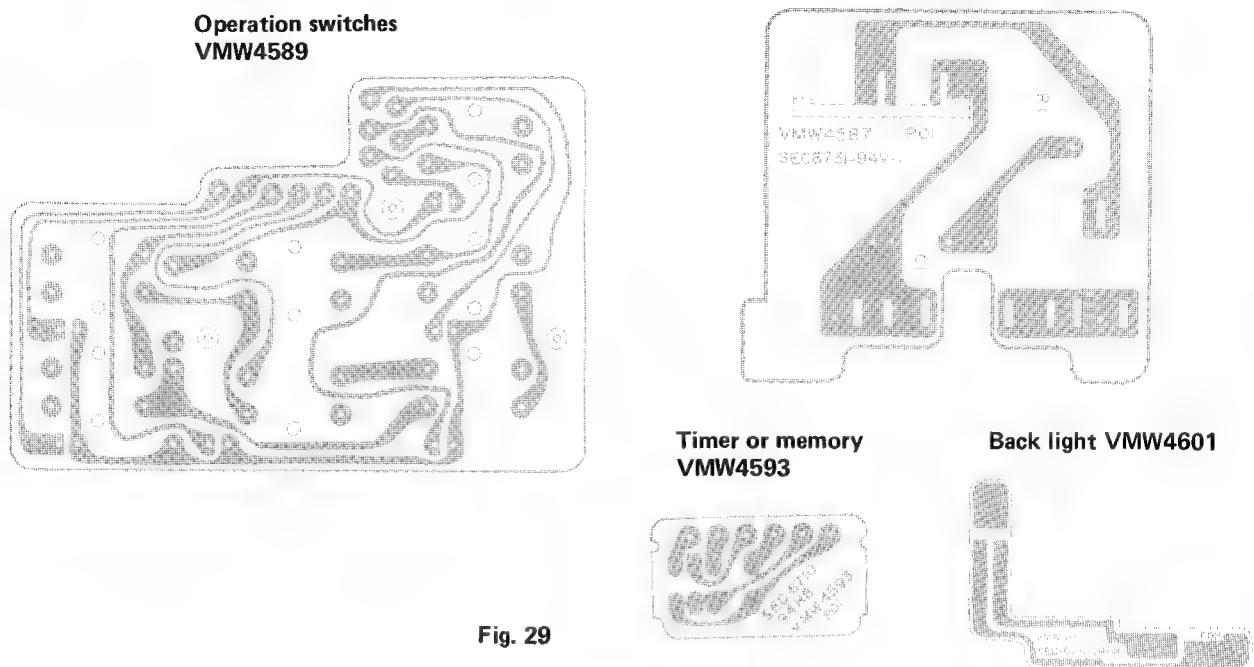


Fig. 29

Other P.W.B. Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
[Power switch]		VMW4587-001 QSP1110-305 " -305BS " -308 " -306	P.W.B. Push Switch " " " "	DD-5A/E DD-5B DD-5C/J DD-5U	1 1 1 1 1
	⚠	QCZ9010-103 QCZ9014-103 QCZ9015-103 QRD149J-820S E40130-001	M.P. Capacitor C. Capacitor " Fail Safe Resistor Tab	DD-5A/B DD-5C/E/J DD-5U 82 Ω ¼ W	1 1 1 1 4
[Timer]		VMW4593-001 QSS2301-102 SSSP2606Z	P.W.B. Slide Switch Screw		1 1 2
[Memory]		VMW4593-001 QSS2301-102	P.W.B. Slide Switch		1 1
[Switch]		SSSP2606Z VMW4589-001 QSP0021-002A SLP-155B-01V SLP-255B-01V	Screw P.W.B. Tact Switch LED " (Red) REC, REC MUTE (Green) PLAY, PAUSE		2 1 7 2 2
[Back light]		QRD147J-391S " -471S VMW4601 LD-702	C. Resistor " P.W.B. L.E.D.	390 Ω ¼ W 470 Ω " 1 1	2 2 1 1

DD Motor Circuit Parts List

 parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
R1	QRD143J-272S	C. Resistor	2.7 kΩ 1/4 W	1
R2, 16	" -181S	"	180 Ω "	2
R3	" -332S	"	3.3 kΩ "	1
R4	" -182S	"	1.8 kΩ "	1
R5, 6, 7, 8	" -472S	"	4.7 kΩ "	4
R9, 10, 23	" -681S	"	680 Ω "	3
R11, 12	QRD141J-681S	"	680 Ω "	2
R13	QRD143J-101S	"	100 Ω "	1
R14, 25	" -122S	"	1.2 kΩ "	2
R15	" -222S	"	2.2 kΩ "	1
R17	" -184S	"	180 kΩ "	1
R18	" -331S	"	330 Ω "	1
R19	" -243S	"	24 kΩ "	1
R20, 21	" -682S	"	6.8 kΩ "	2
R22	" -105S	"	1 MΩ "	1
R24	" -103S	"	10 kΩ "	1
R28	QRV146F-823	O.M.F. Resistor	82 kΩ "	1
R30	QRD143J-122	C. Resistor	1.2 kΩ "	1
VR1	RVAH306-473	V. Resistor	47 kΩ "	1
C1, 2, 4	QET41HK-474	E. Capacitor	0.47 μF 50 V	3
C3	" -105	"	1 μF "	1
C5	" -476	"	47 μF "	1
C6	QFN41HK-471	"	470 pF "	1
C7	QFM41HK-472	"	0.0047 μF "	1
C8, 9	" -223	"	0.022 μF "	2
C11	APS223J50-223	Film Capacitor	(or J100) 0.022 μF	1
C12	QCT05CH-151	C. Capacitor	150 pF 50 V	1
D1	1SS53	Diode		1
X1-4	2SC2001(K, L)	Transistor		4
X5-8	2SA733(P, Q)	"		4
X9	2SA733(P, K)	"		1
X10-12	2SC945(P, K)	"		3
IC1	VC1029	I.C.		1
	M30997A	Bearing Holder Ass'y		1
	M30998A	Yoke Plate Ass'y		1
	MC950A	Motor Ass'y		1

* DD motor circuit diagram refer to page 5.

Packing

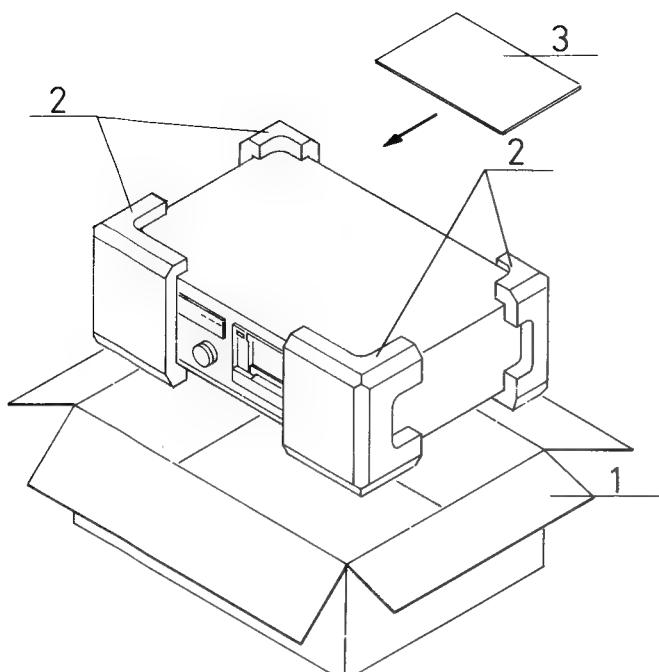


Fig. 30

Position of controls and switch knobs at renew packing.

Power switch	: OFF
Timer switch	: OFF
Output level control	: MAX
Input select switch	: LINE
ANRS switch	: OFF
Tape select switch	: SF/NORM
Input level control	: MIN
Counter	: 000
Auto rewind switch	: OFF
Mecha. operation buttons	: OFF

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1, 2	VDP2072-002A	Packing Case Ass'y	DD-5A/B/E/J/U	1 set
1, 2	" -003A	"	DD-5C	1 set
1	VPD2072-J02	Case	DD-5A/B/E/J/U	1
1	" -J03	"	DD-5C	1
2	VPH3114-001	Cushion	Left	1
2	VPH3115-001	"	Right	1
3	QPGA060-06005	Envelope	for Cassette Deck	1
	AP4056A-036	"	for Power Cord, provided cord	2
	AP4056B-077	"	for Instruction Book	1
	TKS000501-01	Sheet	for Cassette Deck	1

Parts No.	Parts Name	Remarks	Q'ty
VNF0069-001	Feature Sticker	DD-5A/C/J/U	1
VNF0069-002	"	DD-5B/E	1
VND4042-001	Caution Sticker	Timer Safety Lock Caution	1

Accessories

 parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

	Parts No.	Parts Name	Remarks	Q'ty
	CN-201 VMP0002-00B VYA4001-00A VNN0069-901 BT20029B	DIN Cord Pin Cord Head Cleaning Stick Instruction Book Warranty Card	DD-5B/E DD-5A/C/J/U DD-5A	1 2 1 1 1
	BT20013C BT20025D BT20032B TJL000443-01	Guarantee Certificate Warranty Card " Seal	DD-5B DD-5C DD-5J/U DD-5B	1 1 1 1
	VND4013-001 OZL1002-003BS T46328-003 " -004 " -001	Warning Label " Caution Label " "	Disconnection DD-5A/B/E 2-Pin Power Cord DD-5B V. Selector DD-5B " DD-5E DD-5U	1 1 1 1 1
	TLT000505-01 BT20042 E7795-1 VNC5311-101	UL/CSA Caution Label Special Reply Card EP Mark Caution Card	DD-5C/J DD-5J/U for PX, EES DD-5U for PX, EES DD-5U for EES	2 1 1 1
	V04062-001 VNC5004-001 BXN750110UU VND4016-001 BT20044B	Siemens Plug Mark Sticker JVC Microphone Guide Metal Sticker Safety Instruction	DD-5U for PX, EES DIN 45500 DD-5B/E DD-5B/E DD-5J	1 1 1 1 1

JVC

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JVC

Supplementary SERVICE MANUAL

MODEL DD-5 A/B/C/E/J/U

This manual is supplementary of Service Manual (No. 4197) for Model DD-5A/B/C/E/J/U.
 The other parts not listed here are the same as those of the service manual (No. 4197).
 Please give an order to us for the parts concerned to keep them as spare.

Page 23-25

**Enclosure Assembly and Electrical Parts List
(Except P. W. Board Parts)**

⚠ parts are safety assurance parts.
 When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1 (2-4,6,8,9)	VJD3213-002 ZCDD-5Y-CBF	Jack Escutcheon Front Plate Ass'y		1 1
2	VJC1130-004	Front Plate		1
3	VJD3234-002	Escutcheon		1
4	VJK4001-001	Counter Lens		1
5	VXP4083-001	Push Button	for Reset	1
6	VJD3234-001	Escutcheon		1
7	VXP4087-001	Push Button		1
8	VJD3239-001	Finder		1
9	VJD4432-002	DD Mark		1
10	VJD2162-001	Button Escutcheon		1
11	VXP4084-001	Push Button		5
12	VXP4085-001	"		2
13	VXP4086-00A	Push Button Ass'y		1
14	VJD3252-00A	Holder Plate Ass'y		1
15	VJD4437-002	Disc Plate		1
16	VKL4380-00A	Cross Bar Ass'y		1
17	VKL4844-00A	"		1
18	VKL4842-00A	Holder Bracket Ass'y		1
19	VJD3237-004	Tape Holder (R)		1
20	VJD3238-004	" (L)	Right Left	1
21	VKY4218-001	Cassette Spring (L)	VKY4217-001(R)	1
22	VKL4403-00E	Shift Arm Ass'y		1
23	T43909-004	Metal		1
24	VKL4841-00A	Mecha. Bracket (L) Ass'y		1
25	VKW4250-005	Holder Spring		1
26	" -006	"		1
27	VKL4169-00A	Gear Frame Ass'y		1
28	VKS4352-001	Spur Gear		1
29	VKS4109-004	Brake Drum		1
30	VKS3102-001	Rack Plate		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
31	VKH4123-001	Collar		1
32	VKS4110-002	Brake Arm		1
33	VKL4217-001	Rubber Retainer		1
34	VKZ4111-001	Rubber Tire		1
35	VKL4847-00A	Arm Bracket Ass'y		1
36	VJT2049-003	Cassette Holder		1
37	VJT4035-001	Holder Plate		1
38	VJT3059-002	Cassette Lid		1
39	VJT4036-001	Lid Plate		1
40	VJT4037-001	Plate		2
41	—	—		—
42	VJD3235-002	Meter Escutcheon		1
43	VJK4131-001	Filter		1
44	VXS4041-001	Slide Knob	Timer & Memory	2
45	VKL4843-002	Bracket	Timer Safety	1
46	VXS3003-001	Slide Knob	Output	1
47	VJD4431-001	Blind		1
48	VXL4127-00A	Knob Ass'y	Input (L)	1
49	VXL4128-001	Volume Knob	" (R)	1
50	VXP4088-001	Push Button		6
51	VJC1132-001	Top Cover		1
52	VKZ3001-002	Special Screw		4
53	VJC1133-002	Bottom Cover		1
54	VJF4003-002	Foot		4
55	VYN2072-003KA	Name Plate	DD-5A	1
	" -002KA	"	DD-5B	1
	" -004KA	"	DD-5C	1
	" -005KA	"	DD-5E	1
	" -006KA	"	DD-5J	1
	" -007KA	"	DD-5U	1
56	E47829-002	Plastic Rivet		2
57	VKL1186-001	Amp. Chassis (R)		1
58	VKL3257-001	" (L)		1
59	VKL3258-001	Power Bracket	for Push Switch	1
60	⚠ QSP1110-305	Push Switch	DD-5A/E	1
	⚠ " -305BS	"	DD-5B	1
	⚠ " -308	"	DD-5C/J	1
	⚠ " -306	"	DD-5U	1
61	⚠ VTP66T7-021T	Power Transformer	DD-5A	1
	⚠ VTP66C7-031TBS	"	DD-5B	1
	⚠ VTP66A7-031T	"	DD-5C/J	1
	⚠ VTP66C7-031T	"	DD-5E	1
	⚠ VTP66U7-031T	"	DD-5U	1
62	WNS3000Z	Washer	Power Trans.	4
63	VKZ4001-011	Wire Holder		8
64	VJC1131-001	Front Panel		1
65	QSS2301-102	Slide Switch		1
66	QSP0021-002A	Tact Switch		7
67	SLP-155B-01V	LED	(Red) REC, REC MUTE	1
68	SLP-255B-01V	"	(Green) PLAY, PAUSE	1
69	VJC1134-003	Rear Panel	DD-5A/C/J	1
	" -002	"	DD-5B/E/U	1
70	⚠ QMP2560-200	Power Cord	DD-5A	1
	⚠ QMP9017-008BS	"	DD-5B	1
	⚠ QMP1200-200	"	DD-5C/J	1
	⚠ QMP3900-200	"	DD-5E	1
	⚠ QMP7600-200	"	DD-5U	1

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
71	⚠️ ⚠️	QHS3876-162 " -162BS	Strain Relief "	DD-5A/C/E/J/U DD-5B	1 1
73		QMC0888-008	DIN Socket	for Remote	1
74		VKS4003-004	Pipe		1
75		BG-84ZS	FL Tube		1
76		VKL3252-001	Bracket		1
77		VKL4839-00C	Lock Arm Ass'y		1
78		VKH3013-005	Collar		1
79		VKZ4143-002	Special Screw		1
80		VKW3002-043	Spring		2
81		TJN265559-04	Silencer		1
82		LD-702	LED		1
83		VKZ4001-010	Wire Holder		1
84		QSS2325-011BS " -011	Voltage Select Switch	DD-5B	1
		QSR0084-001	"	DD-5E	1
85		VKL4275-001	"	DD-5U	1
86		VKC5139-002S	Bracket	DD-5U	1
87		VKW4311-001			1
88		-			-
89		VYSR102-004	Counter Knob		1
90		VYSR101-003	Compression Spring	Front Plate	3
91		VYSH203-001	"		1
92		VKZ4001-009	Wire Holder		1
93		VYSH115-005	Spacer		1
96		TAH000459-01	Mark		1
97		T47818-003	Spacer	CN803	2
101		VKW3001-006	Spring		1
102-1		VKW4265-002	Button Spring		1
102-2		VKW3001-028	Compression Spring		1
103		" -057	"		1
104		" -058	"		1
105		VKW4106-001			1
106		REE2000	"E" Ring	Brake Drum x 2, Arm Bracket Ass'y x 2	4
107		REE2500	"	Push Button Ass'y x 1, Flange Shaft x 2, Holder Spring x 2	5
108		Q03093-524	Washer		1
109		WNS2600Z	"		1
110		LDSP2604R	Screw	Arm Bracket Ass'y	1
111		VKZ4143-002	Special Screw	for Mecha. Bracket — Mecha. Chassis	2
112		LSPS2606Z	Screw		1
113		LSPS2608Z	"		1
114		SDSF2605R	"	Tape Holder (R) x 2, Tape Holder (L) x 2, Cassette Spring x 2	6
115		SSSB3008C	"	Mecha. — Amp. Chassis	2
116		SBSB3006Z	"		2
117		SDSB3008R	"	Top Cover x 1, Rear Panel x 5, Jack Escutcheon x 9	9
118		SDSB3008Z	"	Bottom Cover	6
119		SSSB3008Z	"	Front Plate — Front Panel	5
120		SSSP3006CS	"	Mecha. — Front Plate	2
121		LSPS3006ZS	"	Power Switch x 2, Voltage Selector (DD-5U) x 1	3
122		SBSB3006Z	"	Power Bracket x 2, Wire Holder x 7	9
123		SDSC3008Z	"	Power Transformer	4
124		SSSB3006Z	"	Front Panel	5
125		SSSP2605Z	"	Slide Switch (Timer) x 2, Slide Switch (Memory) x 2	4

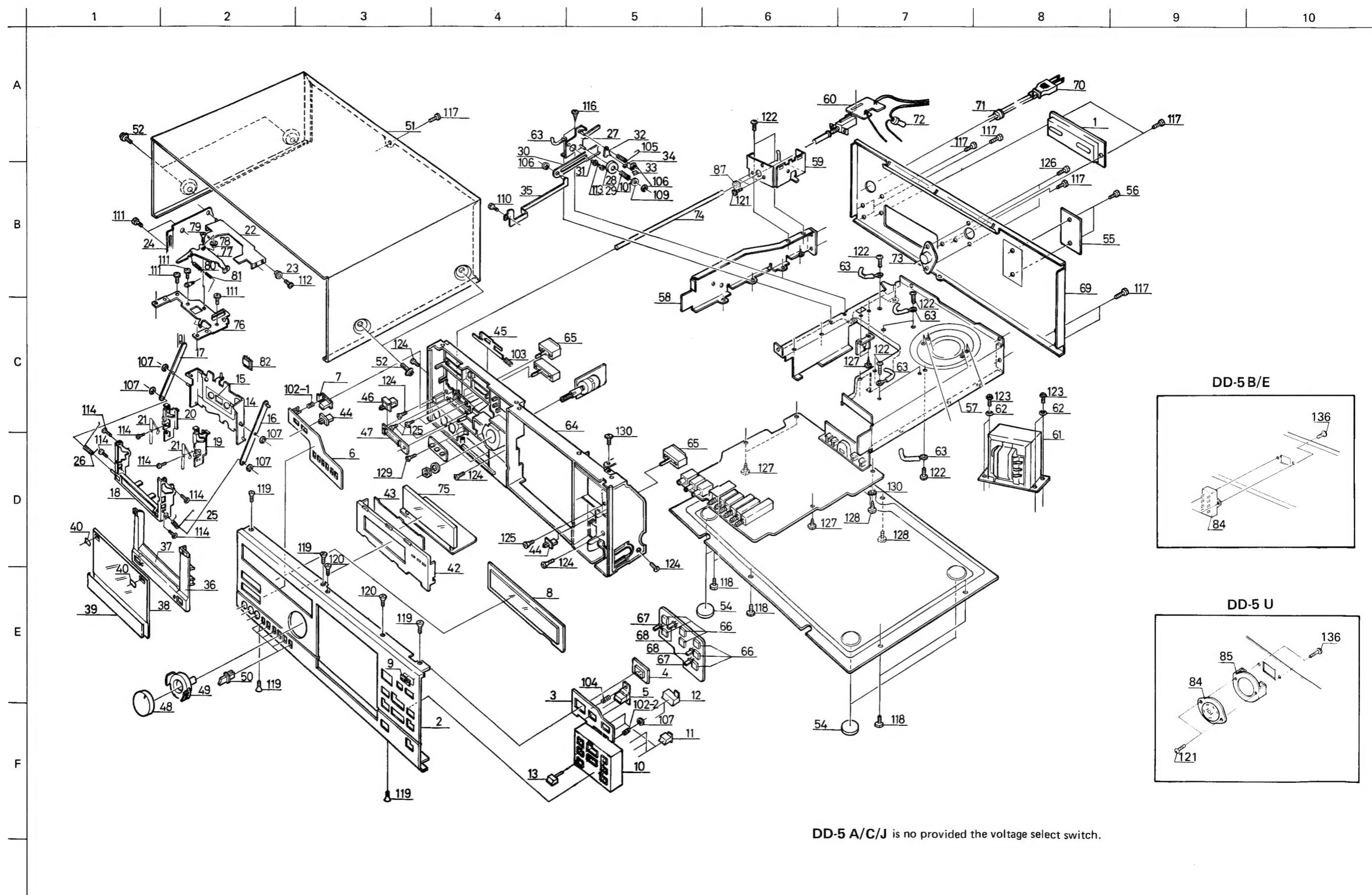
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
126	SDSP2605R	Screw	Remote	2
127	SBSB3006V	"	Heat Sink x 2, Main P.W.B. x 5	7
128	SBSB3008Z	"	P.W.B. Earth	1
129	SBSF2610Z	"	P.W. Board	3
130	SBSF3008C	"	Chassis Bracket - Front Panel	1
131	SSSP3008Z	"	Push Switch	2
132	WBS3000	Washer	P.W.B. Earth	1
133	Q03093-814	"		3
134	SDSB3008C	Screw	Mecha. - Amp. Chassis	2
135	LPSP2605Z	"	Bracket	2
136	SDSP3006RS	"	V. Select	2
137	SSSP2006Z	"	Output VR	2
138	SDSB3004R	"	Rear Panel x 1	1
139	Q03093-504	N. Washer		2

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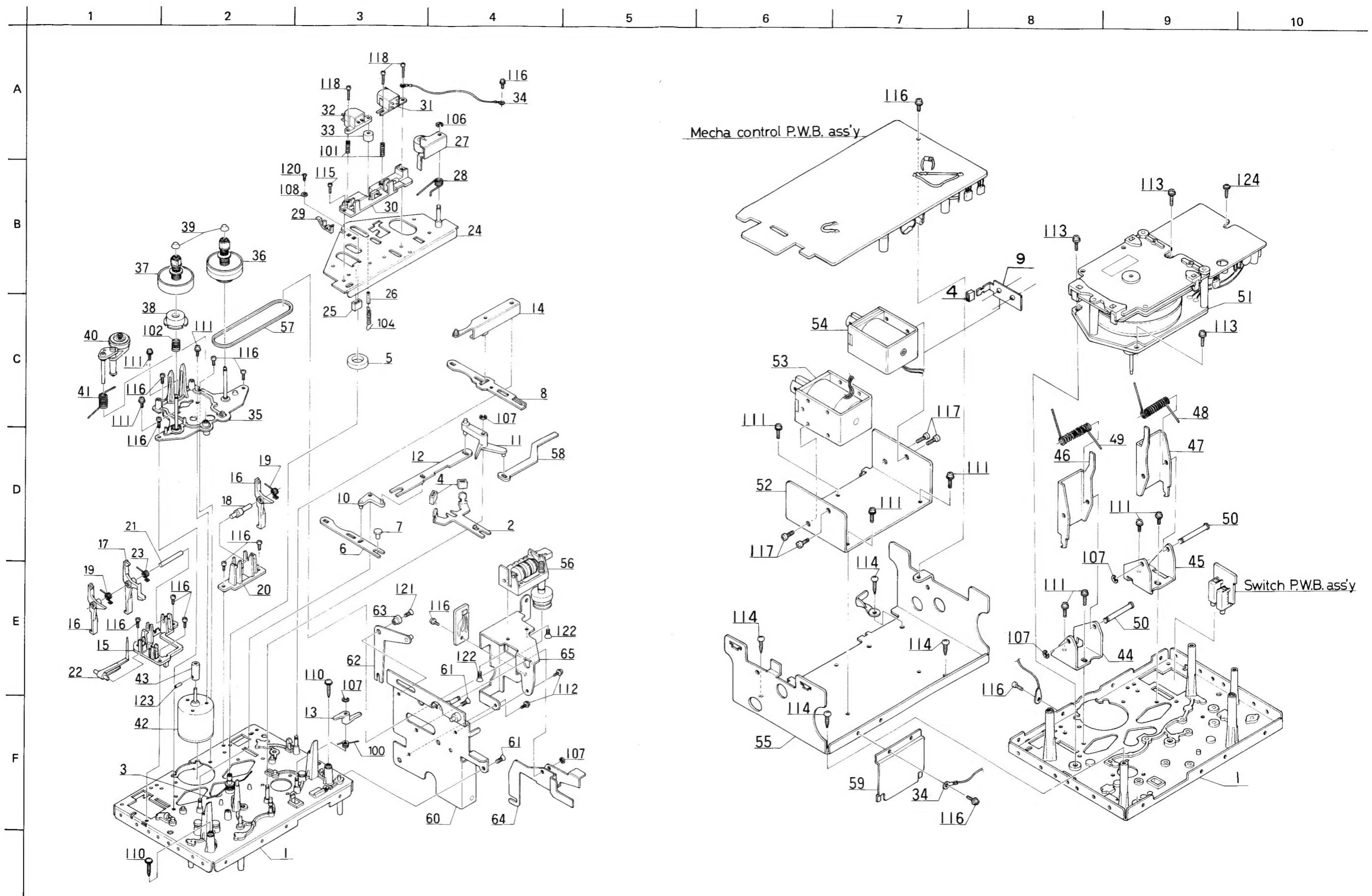
Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VKL1184-00A	Chassis Base Ass'y		1
2	VKL4823-001	Brake Bar		1
3	VKW4243-001	Brake Bar Spring		1
4	VKZ4129-001	Rubber Tire		3
5	VKZ4005-003	Stopper		1
6	VKL4824-001	Lock Plate (1)		1
7	VKS4233-001	Lock Bush		3
8	VKL4945-001	Slide Plate		1
9	VKL4944-001	Stopper		1
10	VKS4258-00C	Connecting Lever Ass'y		1
11	VKS4260-00B	Lock Lever Ass'y		1
12	VKL4827-001	Lock Plate (2)		1
13	VKS4262-001	Pause Lever		1
14	VKL4828-00A	Play Arm Ass'y		1
15	VKS2110-002	Switch Holder	Left	1
16	VKS4263-001	Pressure Lever		2
17	VKS4264-001	Switch Lever		1
18	VKH4264-001	Shaft		1
19	VKW4138-001	Pressure Lever Spring		2
20	VKS3125-001	Switch Holder	Right	1
21	VKH4196-001	Shaft		1
22	VKS4265-002	Cassette SW. Lever		1
23	VKW4191-001	Pressure Lever Spring		1
24	VKL4830-00A	Slide Base Ass'y		1
25	VKZ4129-001	Rubber Tire		1
26	TJN265559-02	Silencer		1
27	VKP4113-00A	Pinch Roller Arm Ass'y		1
28	VKW4240-001	Pinch Roller Spring		1
29	VKS4266-001	Shift Lever		1
30	VKS2102-001	Head Mount Base		1

Enclosure Ass'y and Electrical Parts (Except P.W. Board Parts)



Mechanical Component Parts



Ref. No.	Parts No.	Parts Name	Remarks	O'ty
31	ZMM074436-0A	R/P Head Ass'y		1
32	VGH0212-103	E. Head Ass'y		1
33	VKH4215-001	Head Collar		1
34	VMZ0008-00A	Wire Ass'y		1
35	VKL3155-00A	Reel Disk Bracket Ass'y		1
36	VKR4113-00C	Take-up Reel Ass'y		1
37	VKR4118-00B	Supply Reel Ass'y		1
38	VKS4130-001	Back Tension Base		1
39	VKS4131-002	Reel Stopper		2
40	VKS4151-00D	Idler Ass'y Unit		1
41	VKW4134-001	Idler Spring		1
42	MDN-7V1-3	Reel Motor		1
43	VKR4121-001	Motor Pulley		1
44	VKL4832-001	Shaft Holder		1
45	VKL4832-002	"		1
46	VKL4833-001	Solenoid Lever		1
47	VKL4833-002	"		1
48	VKW4241-001	Solenoid Lever Spring		1
49	VKW4241-002	"		1
50	VKH4292-001	Shaft		2
51	MC950A	DD Motor Ass'y		1
52	VKL4867-001	Solenoid Bracket		1
53	VGP0301-005	D.C. Solenoid Ass'y		1
54	VGP0201-008	"		1
55	VKL3254-002	Holder Bracket	Play Lock	1
56	VKC5134-002S	Counter Ass'y		1
57	VKB3000-025	Counter Belt		1
58	VKL4912-002	Lock Bar		1
59	VKL4913-001	Flywheel Cover		1
60	VKL4835-00B	Mecha. Bracket (R) Ass'y		1
61	VKZ4143-002	Special Screw		3
62	VKL4836-00A	Eject Arm Ass'y		1
63	VKH3013-004	Flange Collar		1
64	VKL4838-003	Eject Lever		1
65	VKL4870-001	Counter Bracket		1
66	VMZ0008-00A	Wire Ass'y		1
100	VKW4268-001	Lock Bar Spring		1
101	VKW3001-020	Comp. Spring		2
102	" -026	"		1
103	" -036	"		1
104	VKW3002-005	Spring	Slide Base	1
106	REE2000	E-Ring		1
107	REE2500	"		6
108	WNS3000N	Washer		1
109	WSS2000N	"		1
110	GPSA2612Z	Tapping Screw	Comp. Spring Slide Base	2
111	LPSP2604Z	Screw	Reel Motor x 3, Shaft Holder x 4, Solenoid Bracket x 3	10
112	LPSP2605Z	"	Counter Bracket	2
113	LPSP2606Z	"	D.D. Motor Ass'y	3
114	SBSB2608Z	Tapping Screw	Holder Bracket	4
115	SPSP2006Z	Screw	Head Mount Base	1

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
116		SPSP2606Z	Screw	Switch Holder x 5, Reel Ass'y Unit x 4, Flywheel Cover x 2, Wire Ass'y x 1	12
117		SPSP3004ZS	"	D.C. Solenoid Ass'y	4
118		SPSX2010N	"	Head	3
119		SPSX2014Z	"	E. Head	1
120		SSSK2650Z	Mini Screw	Slide Base	1
121		SSSP2605Z	Screw	Flange Collar	1
122		SSSP3006ZS	"	Counter Ass'y	2
123		YRS2603B	"	Motor Pulley	1
124		GPSA2608Z	"	D.D. Motor Ass'y	1

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